

**APPENDIX A**  
**NOTICE OF PREPARATION AND SCOPING MEETING MATERIALS**

**NOP**

CLERK OF THE BOARD

Received on: 12/08/2020

Remove on: 01/20/2020

City of Ontario  
Planning Department  
303 East "B" Street  
Ontario, California  
Phone: (909) 395-2036  
Fax: (909) 395-2420



California Environmental Quality Act  
**Notice of Preparation**

**TO:** Property Owners, Responsible Agencies & Interested Parties  
**FROM:** City of Ontario, 303 East "B" Street, Ontario, CA 91764  
**SUBJECT:** NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT.

NOTICE IS HEREBY GIVEN that the City of Ontario will be the Lead Agency and will prepare an environmental impact report for the project identified below. We need to know the views of your agency as to the scope and content of the environmental information, which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approval for the project.

The project description, location, and the potential environmental effects are summarized herein. A copy of the Expanded Notice of Preparation (NOP) is available at City Hall, Planning Department, 303 East "B" Street, Ontario, CA 91764, and on the City's website at <http://www.ontarioca.gov>.

The proposed project  is,  is not, considered a project of statewide, regional, or area-wide significance. The proposed project  will,  will not, affect highways or other facilities under the jurisdiction of the State Department of Transportation. A scoping meeting  will,  will not, be held by the lead agency. A project **scoping meeting** will be held on **Monday, December 21, 2020 at 6:00 PM** via Zoom.

Pursuant to Governor Gavin Newsom's executive order N-29-20, the San Bernardino County Department of Public Health requirements, and to ensure the health and safety of our residents by limiting contact that could spread the COVID-19 virus, there will be no members of the public in attendance of the scoping meeting. Members of the public, project applicants and consultants, and staff will participate in this meeting via Zoom.

In place of in-person attendance, members of the public can observe and offer comment at this meeting remotely in one of three ways:

1. **PROVIDE PUBLIC TESTIMONY DURING THE MEETING:** The Zoom meeting link and call-in phone number will be made available on the City's website a minimum of 72 hours prior to the hearing, which can be accessed at <http://www.ontarioca.gov/planning>
2. **E-MAIL:** Please e-mail your comments to the City Contact no later than 4:00 PM on the day of the meeting.
3. **TELEPHONE BEFORE THE MEETING:** Please call the City Contact prior to and no later than 4:00 PM on the day of the meeting to submit your comments on the project.

Any members of the public who require special assistance or a reasonable accommodation to participate in the scoping meeting may contact the project planner or the Planning Department at (909) 395-2036, 72 hours prior to the meeting.

If you do not wish to participate in the scoping meeting, but would like to comment on the project, please send your comments, including contact information, to Alexis Vaughn, Assistant Planner, Ontario Planning Department, 303 East "B" Street, Ontario, CA 91764, (909)395-2036 or [avaughn@ontarioca.gov](mailto:avaughn@ontarioca.gov) no later than **Monday, January 4, 2021**.

**Project Title/File No.:** South Ontario Logistics Center Specific Plan (File No. PSP19-001)

**Project Location:** South Ontario Logistics Center Specific Plan (Specific Plan) EIR is located east of the existing right-of-way for the future Campus Avenue extension, north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in Ontario, California, 91764. The project consists of 23 parcels: APNs 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-231-01, -02; 1054-241-01, 02; 1054-321-01, -02; 1054-311-01, -02; 1054-051-01, -02; 1054-061-01, -02; 1054-251-01, -02 and 1054-301-01, -02. Regional access is available to the Project site via State Route 83 (CA-83) approximately one mile to the west, State Route 60 (CA-60) approximately

three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (CA-91) approximately eight miles to the south.

The project site is on an existing operational dairy farm with several residential structures, dairy barns, storage structures and feed storage barns, and numerous livestock corrals. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport within the City of Chino.

**Project Description:** The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The development of Phase II including construction phasing and timing would be determined based on market conditions and other factors. The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements. The proposed General Plan Amendment would amend the City's General Plan Land Use Map by changing the existing land designations of the project site from 159.04 acres of "Low Medium Density Residential" (5.1-11 du/ac) and 63.14 acres of "Business Park" (0.6 FAR) to 181.04 acres of "General Industrial," (0.55 FAR) and 41.14 acres of "Business Park," (0.6 FAR) to facilitate the development of the Project site. The Specific Plan proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the five Planning Areas.

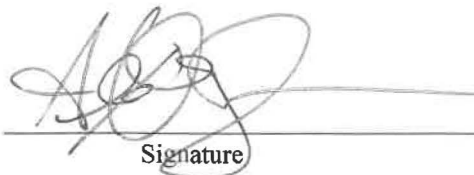
**Environmental Issues:** An Initial Study has not been prepared for the Project as the City has determined that an EIR will clearly be required for the Project, which is in the discretion of the Lead Agency as set forth in State CEQA Guidelines Section 15063(a). Accordingly, the following environmental topics will be analyzed within the forthcoming EIR:

- Aesthetics;
- Agriculture and Forestry Resources;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Energy;
- Geology and Soils;
- Greenhouse Gas Emissions;
- Hazards/Hazardous Materials;
- Hydrology/Water Quality;
- Land Use and Planning;
- Mineral Resources
- Noise;
- Population/Housing;
- Public Services;
- Recreation
- Transportation;
- Tribal Cultural Resources;
- Utilities/Service Systems; and
- Wildfire.

**Public Review Period:** The City welcomes input and comments regarding preparation of the EIR. The NOP and Expanded NOP are available for a 30-day public review period **beginning December 4, 2020 and ending January 4, 2021**. Pursuant to State CEQA Guidelines Section 15082, responsible and trustee agencies and other interested parties, including members of the public, must submit any comments in response to this notice no later than 30 days after receipt of the notice.

**Project Sponsor:** Bill Goltermann, Principal, Real Estate Development Associates, 4450 MacArthur Blvd., Suite 100, Newport Beach, CA 92660.

**Consulting firm retained to prepare Draft EIR:** Kimley-Horn & Associates Inc., 3880 Lemon Street, Suite 420, Riverside, CA 92501; Contact: Kevin Thomas (951) 543-9868.



Signature

Assistant Planner  
Title

December 3, 2020  
Date

**NOP MAILING LIST**

<p>State Clearinghouse Office of Planning and Research 1400 Tenth Street, Room 121 Sacramento, CA 95814 ONT-05</p>	<p>City of Ontario Planning Department 303 East B Street Ontario, CA 91764</p>	<p>City of Fontana Planning Department 8353 Sierra Avenue Fontana, CA 92335</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>City of Chinobao Community Development 13220 Central Avenue Chino, CA 91710</p>	<p>City of Eastvale Community Development 12363 Limonite, Suite 910 Eastvale, CA 91752</p>	<p>County of San Bernardino Clerk of the Board 385 North Arrowhead, 2nd Floor San Bernardino, CA 92415</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>San Bernardino Ass'n of Governments Planning Department 1170 West Third Street, 2nd Floor San Bernardino, CA 92410</p>	<p>San Bernardino County Public Works Environmental Management Division 825 East Third Street San Bernardino, CA 92415</p>	<p>California Department of Fish &amp; Game 4665 Lampson Avenue, Suite J Los Alamitos, CA 90720</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>Army Corps of Engineers Los Angeles District 911 Wilshire Boulevard Los Angeles, CA 90017</p>	<p>Sierra Club San Gorgonio Chapter 4079 Mission Inn Avenue Riverside, CA 92501</p>	<p>Riverside County Planning Department 4080 Lemon Street, 9th Floor Riverside, CA 92502</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>City of Ontario City Clerk 303 East B Street Ontario, CA 91764</p>	<p>City of Ontario Main Library 215 East C Street Ontario, CA 91764</p>	<p>CALTRAN District # 8 464 West Fourth Street 6th Floor, MS 726 San Bernardino, CA 92401</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>South Coast Air Quality Management District (SCAQMD) 21865 Copley Drive Diamond Bar, CA 91765</p>	<p>California Department of Fish &amp; Game 3602 Inland Empire Boulevard, Suite C-220 Ontario, CA 91764</p>	<p>Santa Ana Regional Water Quality Control Board 3737 Main Street, Suite 500 Riverside, CA 92501</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>County of San Bernardino Land Use Services Dept, Adv. Planning Div. 385 North Arrowhead Avenue San Bernardino, CA 92415</p>	<p>Southern California Ass'n of Govts (SCAG) CEQA Review 818 West Seventh Street, 12th Floor Los Angeles, CA 90017</p>	<p>San Bernardino County Flood Control District 825 East Third Street, Room 201 San Bernardino, CA 92415</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>U.S. Fish &amp; Wildlife Service Ecological Serv-Carlsbad Office 6010 Hidden Valley Road Carlsbad, CA 92011</p>	<p>Endangered Habitats League 8424-A Santa Monica Boulevard Los Angeles, CA 90069</p>	<p>Jurupa Unified School District Facilities Planning Office 4850 Pedley Road Riverside, CA 92509</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>Inland Empire Utilities Agency Planning Department 6075 Kimball Avenue Chino, CA 91710</p>	<p>Verizon - Engineering 1400 East Phillips Boulevard Building A Pomona, CA 91766</p>	<p>Southern California Edison P.O. Box 800 Rosemead, CA 91770</p>	<p>ONT-05</p>	<p>ONT-05</p>
<p>Chaffey Community College District Business Services 5885 Haven Avenue Rancho Cucamonga, CA 91737</p>	<p>Metropolitan Water District 700 North Alameda Street Los Angeles, CA 90012</p>	<p>San Bernardino County Waste Management Department 222 West Hospitality Lane, 2nd Floor San Bernardino, CA 92415</p>	<p>ONT-05</p>	<p>ONT-05</p>

Southern California Edison Attn: Christian Nelson 1315 East Francis Street Ontario, CA 91761	<i>ONT-05</i>	Southern California Edison Right-of-Way P.O. Box 410 Long Beach, CA 90801	<i>ONT-05</i>	Southern California Gas Company Technical Services Planning Department 1981 W. Lugonia Avenue Redlands, CA 92373	<i>ONT-05</i>
Mountain View School District Facilities Planning Office 2585 South Archibald Avenue Ontario, CA 91761	<i>ONT-05</i>	Chaffey Joint High School District Facilities Planning Office 211 West 5th Street Ontario, CA 91762	<i>ONT-05</i>	Time Warner Lewis McDonald 1500 Auto Center Drive Ontario, CA 91761	<i>ONT-05</i>
OMNITRANS 1700 West Fifth Street San Bernardino, CA 92411	<i>ONT-05</i>	West Valley Materials Recovery Facility 13373 Napa Street Fontana, CA 92335	<i>ONT-05</i>	Jurupa Community Services District 11201 Harrell Street Mira Loma, CA 91752	<i>ONT-05</i>
Native American Heritage Commission 915 Capitol Mall, Room 364 Sacramento, CA 95814	<i>ONT-05</i>	San Bernardino County Environmental Analysis Section 385 North Arrowhead San Bernardino, CA 92415	<i>ONT-05</i>	San Bernardino County Transportation Authority 1170 West Third Street, 2nd Floor San Bernardino, CA 92410	<i>ONT-05</i>
Ontario International Airport Airport Manager 1923 E. Avion Street Ontario, CA 91761	<i>ONT-05</i>	Inland Empire West Resource Conservation District 2816 East 4th Street Ontario, CA 91764	<i>ONT-05</i>	State Water Resources Control Board District 8 3737 Main Street, Suite 500 Riverside, CA 92501-3339	<i>ONT-05</i>
SCE - Third Party Environmental Review - Karen Cadavona 2244 Walnut Grove Ave. Rosemead, CA 91770	<i>ONT-05</i>	SCE - Local Public Affairs - Jennifer Shaw 7951 Redwood Ave. Fontana, CA 92336	<i>ONT-05</i>	City of Rancho Cucamonga Planning Dept 10500 Civic Center Drive Rancho Cucamonga, CA 91729	<i>ONT-05</i>
City of Upland Planning Department 460 North Euclid Avenue Upland, CA 91786	<i>ONT-05</i>	Airport Land Use Commision Riverside County Administrative Center 4080 Lemon Street 14th Floor Riverside, CA 92501	<i>ONT-05</i>	City of Montclair Planning Department 5111 Benito Street Montclair, CA 91763	<i>ONT-05</i>
George Borba & Sons Dairy 7955 Eucalyptus Avenue Onatrio, CA 91762	<i>ONT-05</i>	Stacey Osborne Lozeau/Drury LLP 1939 Harrison Street, Suite 150 Oakland, CA 94612	<i>ONT-05</i>	Komalpreet Toor Lozeau/Drury LLP 1939 Harrison Street, Suite 150 Oakland, CA 94612	<i>ONT-05</i>

## **NEWSPAPER NOTICE**



# Advertising Order Confirmation

## NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND SCOPING HEARING TO BE PREPARED BY THE CITY OF ONTARIO FOR THE SOUTH ONTARIO LOGISTICS CENTER SPECIFIC PLAN (FILE NO. PSP19-001) AND RELATED GENERAL PLAN AMENDMENT (FILE NO. PGPA19-004)

Notice is hereby given that the City of Ontario (Latitude 34°03'N / Longitude 117°37'W) will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for the project identified below. Interested public agencies are invited to comment on the scope of the EIR. A copy of an expanded Notice of Preparation is available for review at the following locations or by or may be viewed online at <https://www.ontarioca.gov/Planning>.

City Hall, Planning Department    Ontario Main Library  
303 East "B" Street                    215 East "C" Street  
Ontario, CA 91764                    Ontario, CA 91764

**Project Location:** South Ontario Logistics Center Specific Plan (Specific Plan) EIR is located east of the existing right-of-way for the future Campus Avenue extension, north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in Ontario, California, 91764. The project consists of 23 parcels: APNs 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-231-01, -02; 1054-241-01, 02; 1054-321-01, -02; 1054-311-01, -02; 1054-051-01, -02; 1054-061-01, -02; 1054-251-01, -02, and 1054-301-01, -02. Regional access is available to the Project site via State Route 83 (CA-83) approximately one mile to the west, State Route 60 (CA-60) approximately three miles to the north. Interstate 15 (I-15) approximately five miles to the east and State Route 91 (CA-91) approximately eight miles to the south.

The project site is on an existing operational dairy farm with several residential structures, dairy barns, storage structures and feed storage barns, and numerous livestock corrals. To the north, east, and west of the proposed Project site, exists mostly rural farmland, and to the south is the Chino Airport within the City of Chino.

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**Environmental Issues:** An Initial Study has not been prepared for the Project as the City has determined that an EIR will clearly be required for the Project, which is in the discretion of the Lead Agency as set forth in CEQA Guidelines Section 15063(a). Accordingly, the following environmental topics will be analyzed within the forthcoming EIR:

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- Land Use and Planning
- Mineral Resources
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities/Service Systems
- Wildfire

The EIR will address the short and long-term effects of the project on the environment. It will also evaluate the potential for the project to cause direct and indirect growth, including

# Advertising Order Confirmation

will also evaluate the potential for the project to cause direct and indirect growth-inducing impacts, as well as cumulative impacts. Alternatives to the proposed project will be evaluated that may reduce impacts that are determined to be significant in the EIR. Mitigation measures may be proposed for those impacts that are determined to be significant. A mitigation monitoring program will also be developed as required by Section 15097 of the CEQA Guidelines.

The environmental determination in this Notice of Preparation is subject to a 30-day public review period per Public Resources Code Section 21080.4 and CEQA Guidelines Section 15082. Public agencies, interested organizations, and individuals have the opportunity to comment on the proposed project and identify the environmental issues, which have the potential to be affected by the project, and should therefore be addressed further in the EIR.

A scoping meeting will be held by the City of Ontario on **Monday, December 21, 2020, at 6:00 PM** via Zoom.

Pursuant to Governor Gavin Newsom's executive order N-29-20, the San Bernardino County Department of Public Health requirements, and to ensure the health and safety of our residents by limiting contact that could spread the COVID-19 virus, there will be no members of the public in attendance of the scoping meeting. Members of the public, project applicants and consultants, and staff will participate in this meeting via Zoom.

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Rudy Zeledon  
Planning Director

**Publish Date: December 18, 2020**  
**Inland Valley Daily Bulletin**

**Ad#11431218**

<u>Product</u>	<u>Requested Placement</u>	<u>Requested Position</u>	<u>Run Dates</u>	<u># Inserts</u>
Daily Bulletin	Legals CLS LA-SB-PE	General IE - 1076~	12/18/20	1
SB Sun	Legals CLS NP	General NP - 1076~	12/18/20	1
PE Riverside:Full Run	Legals CLS LA-SB-PE	General IE - 1076~	12/18/20	1

## Order Charges:

<u>Net Amount</u>	<u>Tax Amount</u>	<u>Total Amount</u>	<u>Payment Amount</u>	<u>Amount Due</u>
1,506.80	0.00	1,506.80	0.00	<b>\$1,506.80</b>

If this confirmation includes an advertising proof, please check your proof carefully for errors, spelling, and/or typos. Errors not marked on the returned proof are not subject to credit or refunds.

Please note: To meet our printer's deadline, we must have your proof returned by the published deadline, and as indicated by your sales rep.

Please note: If you pay by bank card, your card statement will show the merchant as "SoCal Newspaper Group".

**PUBLIC SCOPING MEETING PRESENTATION**



City of Ontario

South Ontario Logistics Center  
Specific Plan EIR

December 21, 2020

Scoping Meeting



# Purpose of Scoping Meetings

- ❑ Early public consultation
- ❑ Learn about environmental concerns regarding the project from potentially affected agencies and individuals
- ❑ Opportunity to identify and address issues that might otherwise arise late in the process
- ❑ Help focus the EIR's content and identify alternatives



# CEQA Process

- ❑ The California Environmental Quality Act (CEQA) is required for discretionary approvals.
- ❑ Purpose is to inform decision makers and the public of potential effects of project approval.
- ❑ Expanded NOP provides consultation and focuses subsequent efforts.



# Roles and Responsibilities

<i>Developer</i>	Design and submit development proposal
<i>City Staff</i>	Review and evaluate Developer's project Manage EIR Consultant Make recommendations to Decision Makers
<i>Environmental Consultant</i>	Evaluate impacts of project approval on the existing environment
<i>Decision Makers</i>	Planning Commission and City Council Evaluate and approve or disapprove project



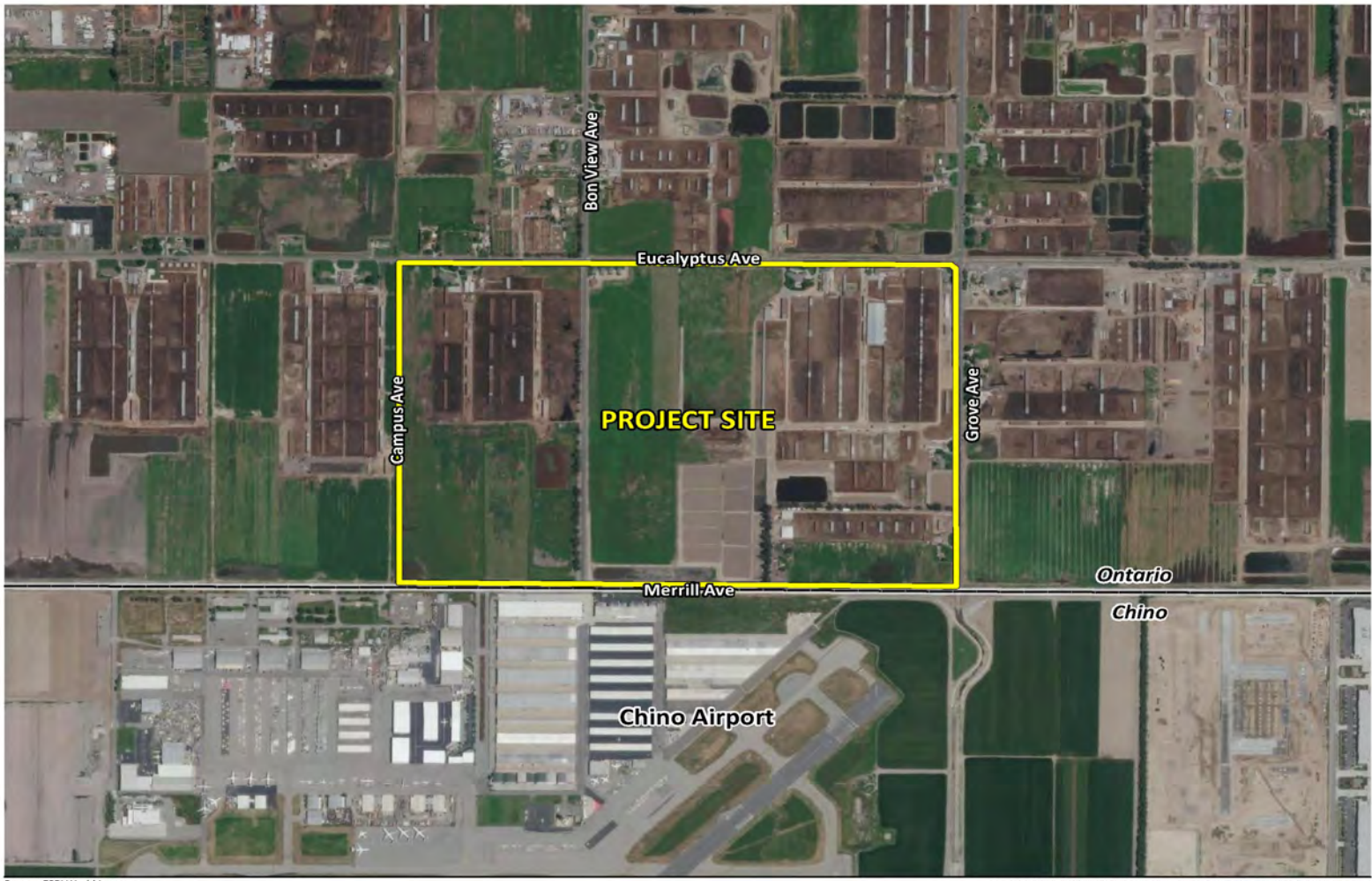
# The Project

- ❑ Proposes a mix of industrial and business park land uses on approximately 222.18 acres.
  
- ❑ Proposes development and operation of up to:
  - ❑ 5,412,591 square feet of industrial/warehouse uses with ancillary office space
  - ❑ 3,172,780 square feet of industrial/business park uses in Phase 1
  - ❑ 2,239,811 square feet of development in Phase 2
  
- ❑ Located in the City of Ontario, bound by Eucalyptus Avenue to the north, Merrill Avenue to the south, and Campus Avenue and Grove Avenue to the west and east.

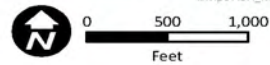




# Project Location

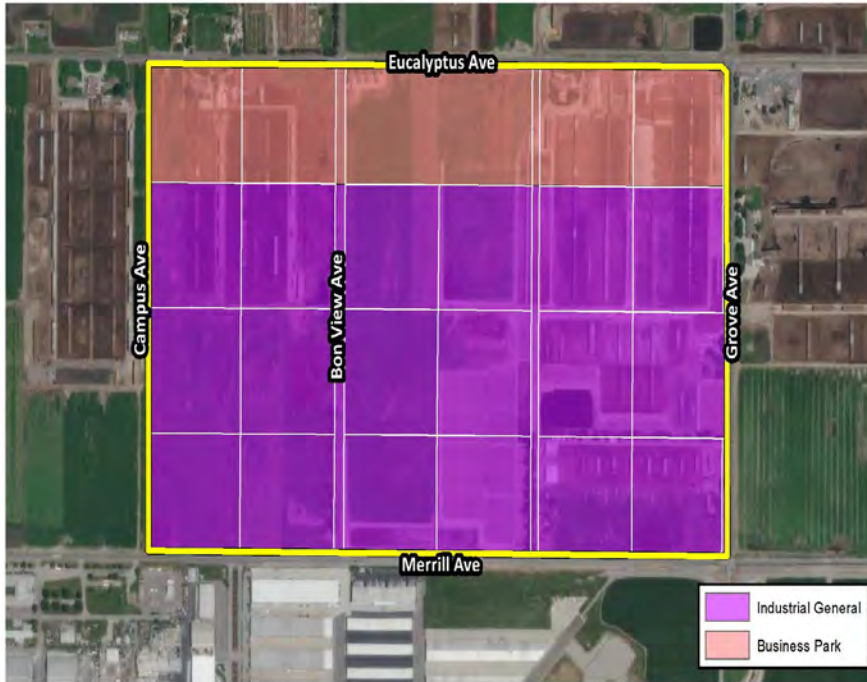


Source: ESRI World Imagery  
**EXHIBIT 1: Vicinity Map**  
South Ontario Logistics Center NOP

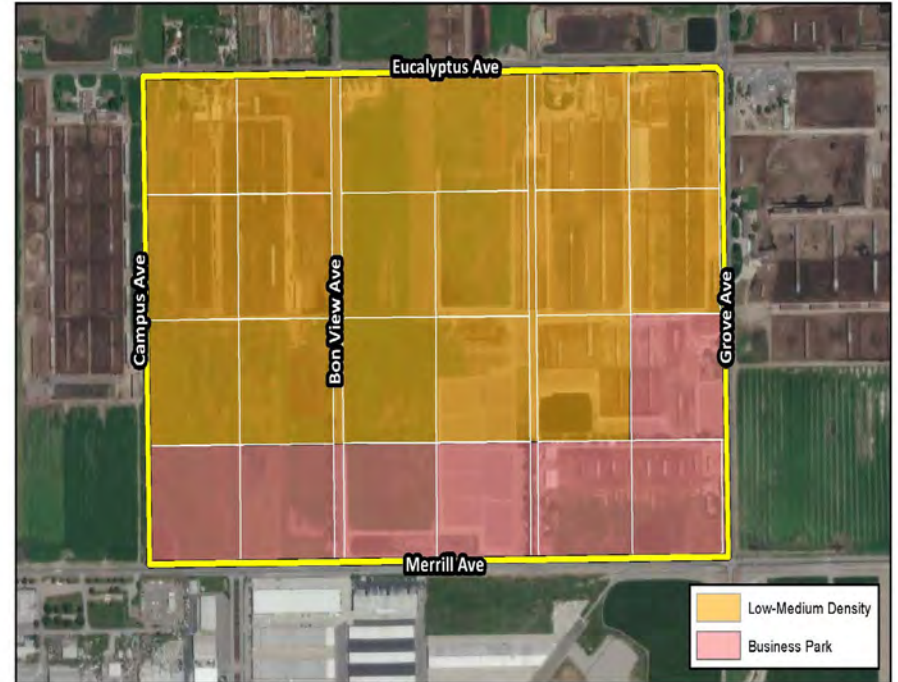




# Land Use Plan – Planning Areas



Proposed Land Use



Existing Land Use





# Proposed Development by Planning Area

Planning Area	Maximum Floor Area Ratio <sup>1</sup>	Site Acreage	Maximum Building Square Footage
<b>Phase 1</b>			
Planning Area 1: Business Park	0.60	23.0	601,128 SF
Planning Area 2: General Industrial	0.55	107.34	2,571,652 SF
<b>Subtotal</b>		<b>130.34</b>	<b>3,172,780 SF</b>
<b>Phase 2</b>			
Planning Area 3: Business Park	0.60	18.14	474,107 SF
Planning Area 4: General Industrial	0.55	56.3	1,348,835 SF
Planning Area 5: General Industrial	0.55	17.4	416,869 SF
<b>Subtotal</b>			<b>2,239,811 SF</b>
<b>TOTAL</b>		<b>222.18</b>	<b>5,412,591</b>

**Notes:**

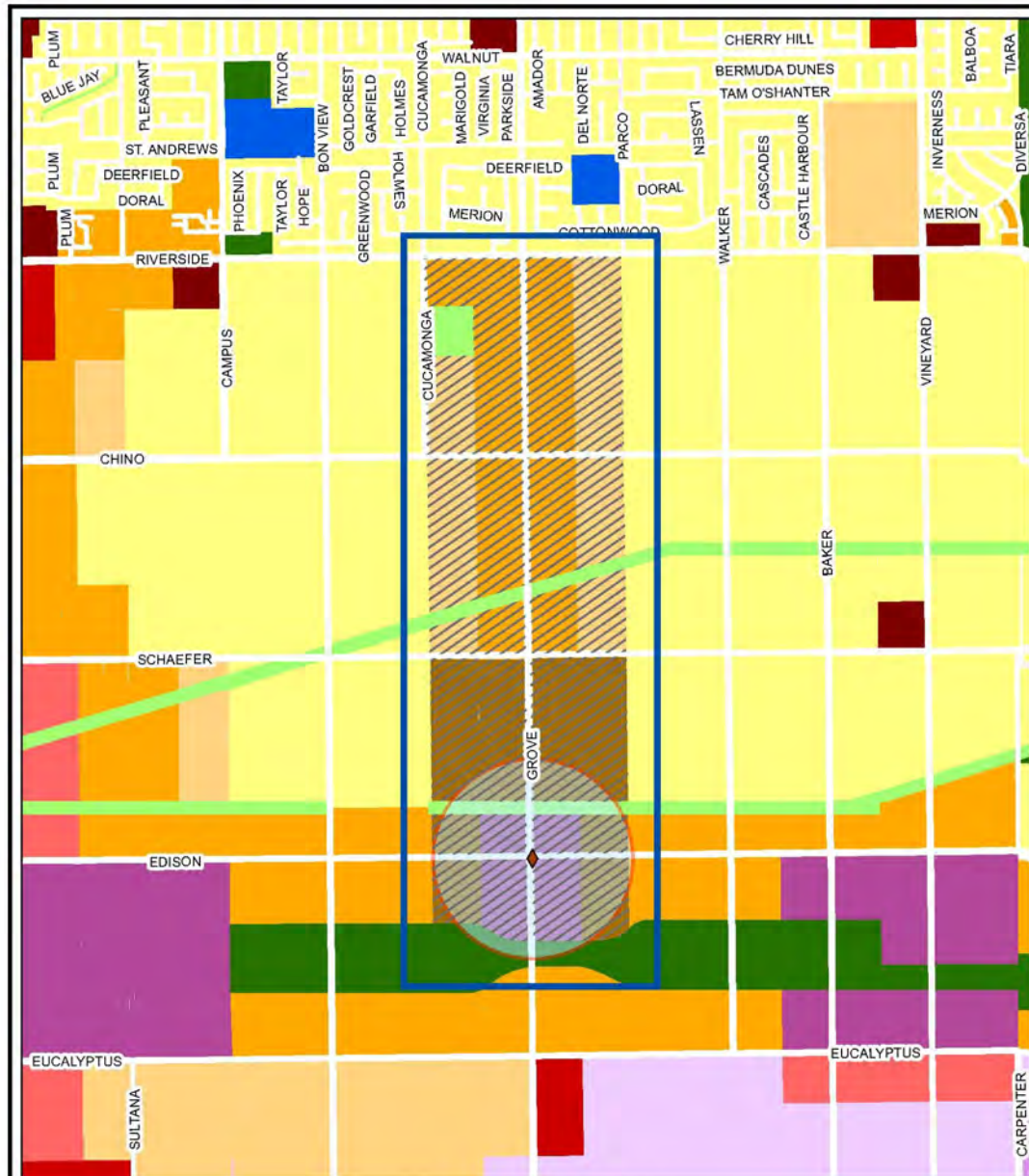
1. Provided the GPA application submitted in conjunction with this Specific Plan to designate PAs 1 and 3 as Business Park and PAs 2,4, and 5 as General Industrial is approved.
2. The Project EIR as proposed is reviewing square footages and will be addressing the maximum allowable SF, per The Ontario Plan (TOP) thresholds. The FAR may be increased to the top max levels of 0.60 and 0.55 for BP and IG respectively with a Specific Plan Amendment and appropriate CEQA analysis.



# The Project

- ❑ Discretionary Approvals Necessary:
  - ❑ Certification of the South Ontario Logistics Center Specific Plan EIR;
  - ❑ Approval of Policy Plan (Land Use) Amendments;
  - ❑ Adoption of the South Ontario Logistics Center Specific Plan;
  - ❑ Approval of SB330 Replacement Site Upzoning
  - ❑ Approval of Parcel Map/Development Plan (Phase I);
  - ❑ Williamson Act Contract cancellation; and
  - ❑ Adoption of a Development Agreement.

# SB 330 Sites



Alternative TOP Land Use

### Legend



Study Site



BRT Transit Stop



BRT 1/4 Buffer



# EIR Focus Areas

Based on the NOP and public scoping, the following topics will be addressed in the Project EIR:

- Aesthetics
- Agriculture/ Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- GHG Emission
- Hazards/ Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire



# Opportunities for Public Involvement

- ❑ Comments on the NOP will be accepted through January 18, 2021.
- ❑ 45-day Draft EIR comment period is anticipated to run during Summer 2021.
- ❑ Responses to EIR comments will be provided to public agencies not less than ten days prior to public hearings.
- ❑ Notices will be provided on dates of Planning Commission and City Council hearings on Final EIR.



# Questions or Comments?

If you have further questions or require additional information, please contact Alexis Vaughn, Assistant Planner, at [AVaughn@ontarioca.gov](mailto:AVaughn@ontarioca.gov).



# Traffic Analysis Study Area



**NOP COMMENT LETTERS**

EUNICE M. ULLOA  
Mayor

MARC LUCIO  
Mayor Pro Tem



KAREN C. COMSTOCK  
CHRISTOPHER FLORES  
MARK HARGROVE  
Council Members

MATTHEW C. BALLANTYNE  
City Manager

## CITY of CHINO

January 4, 2020

Alexis Vaughn  
City of Ontario, Planning Department  
303 East B Street  
Ontario, CA 91764

**RE:** Notice of Preparation of a Draft Environmental Impact Report; South Ontario Logistics Center Specific Plan

Dear Ms. Vaughn,

Thank you for the opportunity to review the Notice of Preparation of a DEIR for the South Ontario Logistics Center Specific Plan. Based upon our review, the City of Chino has the following comments:

### Land Development/Engineering

1. The City would like to collaborate and review infrastructure-related improvements (WQMP, drainage, potable water demand, sewer, etc.) that have downstream and potential off-site impacts to the City of Chino. Additionally, mitigation items may already exist on other EIR's for other Ontario projects, and a clear matrix showing overlap and methods to construct should be implemented.
2. The City would like to review the project's traffic study scoping agreement when it becomes available in order to evaluate trip generation, distribution, study intersections and corridors in and around the City of Chino. The City of Chino would also like to coordinate with the City of Ontario on project impacts from this project and any future project in either agency and establish an agreement for mutual collection and distribution of project fair share contributions towards impacts in the other's jurisdiction.

If you have any questions, please contact Principal Planner Michael Hitz by email at [mhitz@cityofchino.org](mailto:mhitz@cityofchino.org), or by phone at 909-334-3448.

Sincerely,

Warren Morelion, AICP  
City Planner

cc: Michael Hitz, Principal Planner  
Ryan Murphy, Assistant Planner



## Tamimi, Sabrina

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**From:** Lijin Sun <LSun@aqmd.gov>  
**Sent:** Tuesday, December 22, 2020 7:39 AM  
**To:** Alexis Vaughn  
**Subject:** South Coast AQMD Staff NOP Comments for the South Ontario Logistics Center Specific Plan  
**Attachments:** SBC201215-03 NOP South Ontario Logistics Center Specific Plan\_20201222.pdf

Dear Ms. Vaughn,

Attached are South Coast AQMD staff's comments on the Notice of Preparation of a Draft Environmental Impact Report for the South Ontario Logistics Center Specific Plan (South Coast AQMD Control Number: SBC201215-03). Please contact me if you have any questions regarding these comments.

Thank you,  
Lijin Sun, J.D.  
Program Supervisor, CEQA IGR  
South Coast Air Quality Management District  
21865 Copley Drive, Diamond Bar, CA 91765  
Direct: (909) 396-3308  
Fax: (909) 396-3324

*\*Please note that the building is closed to the public.*

SENT VIA E-MAIL:

December 22, 2020

[avaughn@ontarioca.gov](mailto:avaughn@ontarioca.gov)

Alexis Vaughn, Assistant Planner  
City of Ontario, Planning Department  
303 East B Street  
Ontario, CA 91764

**Notice of Preparation of a Draft Environmental Impact Report for  
South Ontario Logistics Center Specific Plan (Proposed Project)**

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send a copy of the Draft EIR upon its completion and public release directly to South Coast AQMD as copies of the Draft EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

**CEQA Air Quality Analysis**

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website<sup>1</sup> as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod<sup>2</sup> land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds<sup>3</sup> and localized significance thresholds (LSTs)<sup>4</sup> to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road

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<sup>1</sup> South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>.

<sup>2</sup> CalEEMod is available free of charge at: [www.caleemod.com](http://www.caleemod.com).

<sup>3</sup> South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.

<sup>4</sup> South Coast AQMD's guidance for performing a localized air quality analysis can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA *operational* thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment<sup>5</sup>.

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Draft EIR. The assumptions in the air quality analysis in the Final EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective*<sup>6</sup> is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process with additional guidance on strategies to reduce air pollution exposure near high-volume roadways available in CARB's technical advisory<sup>7</sup>.

South Coast AQMD staff is concerned about potential public health impacts of siting warehouses within close proximity of sensitive land uses, especially in communities that are already heavily affected by the existing warehouse and truck activities. The South Coast AQMD's Multiple Air Toxics Exposure Study (MATES IV), completed in May 2015, concluded that the largest contributor to cancer risk from air pollution is diesel particulate matter (DPM) emissions<sup>8</sup>. According to the MATES IV Carcinogenic Risk interactive Map, the area surrounding the Proposed Project has an estimated cancer risk over 1,054 in one million<sup>9</sup>. Operation of warehouses generates and attracts heavy-duty diesel-fueled trucks that emit DPM. When the health impacts from the Proposed Project are added to those existing impacts, residents living in the communities surrounding the Proposed Project will possibly face an even greater exposure to air pollution and bear a disproportionate burden of increasing health risks.

### **Mitigation Measures**

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook<sup>1</sup>, South Coast AQMD's Mitigation Monitoring and

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<sup>5</sup> South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis>.

<sup>6</sup> CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* can be found at: <http://www.arb.ca.gov/ch/handbook.pdf>.

<sup>7</sup> CARB's technical advisory can be found at: <https://www.arb.ca.gov/ch/landuse.htm>.

<sup>8</sup> South Coast AQMD. May 2015. *Multiple Air Toxics Exposure Study in the South Coast Air Basin*. Available at: <http://www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf>.

<sup>9</sup> South Coast AQMD. MATES INV Estimated Risk. Accessed at: <https://scaqmd-online.maps.arcgis.com/apps/webappviewer/index.html?id=470c30bc6daf4ef6a43f0082973ff45f>.

Reporting Plan for the 2016 Air Quality Management Plan<sup>10</sup>, and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy<sup>11</sup>.

Mitigation measures for operational air quality impacts from mobile sources that the Lead Agency should consider in the Draft EIR may include the following:

- Require zero-emissions (ZE) or near-zero emission (NZE) on-road haul trucks such as heavy-duty trucks with natural gas engines that meet the CARB's adopted optional NOx emissions standard at 0.02 grams per brake horsepower-hour (g/bhp-hr), if and when feasible. Given the state's clean truck rules and regulations aiming to accelerate the utilization and market penetration of ZE and NZE trucks such as the Advanced Clean Trucks Rule<sup>12</sup> and the Heavy-Duty Low NOx Omnibus Regulation<sup>13</sup>, ZE and NZE trucks will become increasingly more available to use. The Lead Agency should require a phase-in schedule to incentive the use of these cleaner operating trucks to reduce any significant adverse air quality impacts. South Coast AQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency. At a minimum, require the use of 2010 model year<sup>14</sup> that meet CARB's 2010 engine emissions standards at 0.01 g/bhp-hr of particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions or newer, cleaner trucks. Include environmental analyses to evaluate and identify sufficient electricity and supportive infrastructures in the Energy and Utilities and Service Systems Sections in the CEQA document, where appropriate. Include the requirement in applicable bid documents, purchase orders, and contracts. Operators shall maintain records of all trucks associated with project construction to document that each truck used meets these emission standards, and make the records available for inspection. The Lead Agency should conduct regular inspections to the maximum extent feasible to ensure compliance.
- Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the Final CEQA document. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this higher activity level.
- Provide electric vehicle (EV) charging stations or at a minimum, provide the electrical infrastructure and electrical panels should be appropriately sized. Electrical hookups should be provided for truckers to plug in any onboard auxiliary equipment.

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<sup>10</sup> South Coast AQMD's 2016 Air Quality Management Plan can be found at: <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf> (starting on page 86).

<sup>11</sup> Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: [https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A\\_ConnectSoCal\\_PEIR.pdf](https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf).

<sup>12</sup> CARB. June 25, 2020. *Advanced Clean Trucks Rule*. Accessed at: <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks>.

<sup>13</sup> CARB has recently passed a variety of new regulations that require new, cleaner heavy-duty truck technology to be sold and used in state. For example, on August 27, 2020, CARB approved the Heavy-Duty Low NOx Omnibus Regulation, which will require all trucks to meet the adopted emission standard of 0.05 g/hp-hr starting with engine model year 2024. Accessed at: <https://ww2.arb.ca.gov/rulemaking/2020/hdomnibuslownox>.

<sup>14</sup> CARB adopted the statewide Truck and Bus Regulation in 2010. The Regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. More information on the CARB's Truck and Bus Regulation is available at: <https://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>.

Mitigation measures for operational air quality impacts from other area sources that the Lead Agency should consider in the Draft EIR may include the following:

- Maximize use of solar energy by installing solar energy arrays.
- Use light colored paving and roofing materials.
- Utilize only Energy Star heating, cooling, and lighting devices, and appliances.
- Use of water-based or low VOC cleaning products that go beyond the requirements of South Coast AQMD Rule 1113.

Design considerations for the Proposed Project that the Lead Agency should consider to further reduce air quality and health risk impacts include the following:

- Clearly mark truck routes with trailblazer signs, so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, day care centers, etc.).
- Design the Proposed Project such that truck entrances and exits are not facing sensitive receptors and trucks will not travel past sensitive land uses to enter or leave the Proposed Project site.
- Design the Proposed Project such that any check-in point for trucks is inside the Proposed Project site to ensure that there are no trucks queuing outside.
- Design the Proposed Project to ensure that truck traffic inside the Proposed Project site is as far away as feasible from sensitive receptors.
- Restrict overnight truck parking in sensitive land uses by providing overnight truck parking inside the Proposed Project site.

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at [lsun@aqmd.gov](mailto:lsun@aqmd.gov).

Sincerely,

*Lijin Sun*

Lijin Sun, J.D.

Program Supervisor, CEQA IGR

Planning, Rule Development & Area Sources

LS

SBC201215-03

Control Number



**Tamimi, Sabrina**

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**From:** chuck@chinohillsferrariclub.com  
**Sent:** Wednesday, December 23, 2020 10:10 AM  
**To:** avaughn@ontaria.gov; Alexis Vaughn  
**Subject:** EIR comments

Alexis,

Hello, my name is Chuck Stuewe and I lease and pay county property tax on an aircraft hanger parcel located on the north side of Chino airport. I would like to voice my support for this project. Changes to the zoning from possible residential to general industrial will/should remove any future issues with homes under the flight path. In addition, the removal of the operational dairy will be a welcome change to the environment adjacent to the airport with it's repugnant stench and associated swarming flies. I can speak for my fellow pilots and airport tenants, they will ALL embrace this change.

Thank you,  
Chuck Stuewe ATP  
Phone # 714-380-0288

ps. I attempted to join the ZOOM meeting held 12/21/2020 at 6:00 pm but to no avail.



# CITY OF EASTVALE

12363 Limonite Avenue | Suite 910 | Eastvale, CA 91752  
951.361.0900

January 4, 2021

Alexis Vaughn, Assistant Planner  
Ontario Planning Department  
303 East "B" Street  
Ontario, CA 91764

**RE: NOTICE OF PREPARATION (NOP) OF A DRAFT ENVIRONMENTAL IMPACT REPORT (DEIR)  
SOUTH ONTARIO LOGISTICS CENTER SPECIFIC PLAN (FILE NO. PSP19-001)**

Dear Ms. Vaughn:

Thank you for the opportunity to comment on the NOP of a DEIR for the South Ontario Logistics Center Specific Plan. The City of Eastvale offers the following comments for consideration in preparation of the DEIR:

- **Limonite Avenue** – The Eastvale General Plan designates Limonite Avenue as an Urban Arterial with an ultimate right-of-way of 152 feet, which is the largest in the City. This arterial also experiences the highest traffic volumes of any roadway in the City, with Average Daily Traffic (ADT) of more than 35,000 trips between Hamner Avenue and the Interstate 15. In addition, the City is in the process of updating its General Plan (including the Housing Element) which would further increase traffic volumes on this and other roadways throughout the City. The DEIR should focus on ensuring that traffic, and in particular truck traffic, generated by the build out of the specific plan avoid or minimize increasing traffic volumes on Limonite Avenue.
- **Traffic Impact Analysis** – Please provide the City of Eastvale with a copy of the traffic impact analysis once completed for review and comment.
- **Future Notices** – Please provide the City of Eastvale with a copy of all future public notices regarding this project.

If you have any questions or concerns, please do not hesitate to contact me at (951) 703-4499 or [ggonzalez@eastvaleca.gov](mailto:ggonzalez@eastvaleca.gov).

Sincerely,

Gustavo N. Gonzalez, AICP  
Planning Manager

## Tamimi, Sabrina

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**From:** MATHEW, JACOB K@DOT <Jacob.MATHEW@dot.ca.gov>  
**Sent:** Tuesday, January 5, 2021 11:31 AM  
**To:** Alexis Vaughn  
**Cc:** Clark, Rosa F@DOT  
**Subject:** South Ontario Logistics Center Specific Plan

Hi Alexis,

Thank you for providing the California Department of Transportation (Caltrans) the opportunity to review and comment on the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for the South Ontario Logistic Center Specific Plan (Project), located north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in the City of Ontario. The project proposes for a General Plan Amendment, Specific Plan, Development Agreement, Development Plans, and Tentative Parcel Maps to allow development of approximately 5.4 million square feet of industrial and business park land uses on the 222.18-acre site.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when a proposed development may impact our facilities. As the responsible agency under the California Environmental Quality Act, it is also our responsibility to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Ontario, due to the project's potential impact to the State facilities, including State Route 60, 83 and Interstate 15, it is also subject to the policies and regulations that govern the SHS.

In the preceding DEIR, we recommend a Traffic Impact Analysis (TIA) be prepared to accurately evaluate the extent of potential impacts of the project to the operational characteristics of the existing State facilities by the project area. We recommend the TIA be submitted prior to the circulation of the DEIR to ensure timely review of the submitted materials to address any potential issues. We offer the following comments:

- 1) Submit copies of all TIA documents for review when available.** The data used in the TIA should not be more than 2 years old, and shall be based on the Southern California Association of Governments 2016 Regional Transportation Plan Model. Use the Highway Capacity Manual 6 methodology for all traffic analyses.

Caltrans is committed to providing a safe transportation system for all users. We encourage the City to embark a safe, sustainable, integrated and efficient transportation system and complete street to enhance California's economy and livability. A pedestrian/bike-friendly environment served by multimodal transportation would reduce traffic congestion prevalent in the surrounding areas. (See *Complete Street Implementation Action Plan 2.0* at [http://www.dot.ca.gov/hq/tpp/offices/ocp/docs/CSIAP2\\_rpt.pdf \[dot.ca.gov\]](http://www.dot.ca.gov/hq/tpp/offices/ocp/docs/CSIAP2_rpt.pdf)).

- 2)** Design the local streets to serve vehicular and pedestrian circulation equally, and for safe pedestrian friendly environment. Consider both Americans with Disability Act and California Highway Design Manual standards and requirements to provide transportation routes for all users and modes, including pedestrian and bicyclists. Provide a continuous multi-modal circulation system throughout the City, specifically for pedestrians, allowing current/future residents, employees, and guests to access the attraction places.
- 3)** Relegate the parking spaces to the back of the buildings and locate preferential parking for vanpools and carpools, along with, secure, visible, and convenient bicycle parking/racks accessible to retail and office locations. Consider installing electric vehicle charging stations, and locate parking space for low-emitting, fuel-efficient, alternative-fueled vehicle visitor parking in commercial and office uses.

These recommendations are preliminary and summarize our review of materials provided for our evaluation. If you have any questions regarding this email, please contact me.

Thanks,  
Jacob Mathew  
D-8, Planning

**APPENDIX B**  
**AIR QUALITY – GREENHOUSE GAS EMISSIONS**

**APPENDIX B1**  
**AIR QUALITY EMISSIONS MODEL DATA**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**South Ontario Logistics Center Phase 1 - No Mitigation**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43

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tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

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tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

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tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20



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tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20

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tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

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tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

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tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

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tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15

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tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06



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tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003

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tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

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tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

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tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20

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tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

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tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40
tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71
tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

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tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06



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tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68

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tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

## 2.0 Emissions Summary

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
<b>Total</b>	<b>98.6971</b>	<b>358.0960</b>	<b>372.8978</b>	<b>2.1034</b>	<b>123.6769</b>	<b>8.7003</b>	<b>132.3772</b>	<b>33.6353</b>	<b>8.1125</b>	<b>41.7478</b>		<b>227,899.2890</b>	<b>227,899.2890</b>	<b>16.2138</b>	<b>0.1414</b>	<b>228,346.7772</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
<b>Total</b>	<b>98.6293</b>	<b>357.4798</b>	<b>372.3802</b>	<b>2.0997</b>	<b>123.6769</b>	<b>8.6534</b>	<b>132.3303</b>	<b>33.6353</b>	<b>8.0657</b>	<b>41.7009</b>		<b>227,159.8422</b>	<b>227,159.8422</b>	<b>16.1997</b>	<b>0.1279</b>	<b>227,602.9363</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.17</b>	<b>0.14</b>	<b>0.18</b>	<b>0.00</b>	<b>0.54</b>	<b>0.04</b>	<b>0.00</b>	<b>0.58</b>	<b>0.11</b>	<b>0.00</b>	<b>0.32</b>	<b>0.32</b>	<b>0.09</b>	<b>9.59</b>	<b>0.33</b>

**3.0 Construction Detail**

**Construction Phase**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 43.35**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)**

**OffRoad Equipment**

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>9.2795</b>	<b>1.2427</b>	<b>10.5221</b>	<b>1.4050</b>	<b>1.1553</b>	<b>2.5603</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.7503	0.0229	0.7732	0.2057	0.0219	0.2276		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
<b>Total</b>	<b>0.3120</b>	<b>9.0118</b>	<b>2.0389</b>	<b>0.0345</b>	<b>0.9180</b>	<b>0.0240</b>	<b>0.9419</b>	<b>0.2502</b>	<b>0.0229</b>	<b>0.2731</b>		<b>3,656.8807</b>	<b>3,656.8807</b>	<b>0.1893</b>		<b>3,661.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>3.6190</b>	<b>1.2427</b>	<b>4.8617</b>	<b>0.5480</b>	<b>1.1553</b>	<b>1.7032</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.6993	0.0229	0.7222	0.1932	0.0219	0.2151		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		158.1904	158.1904	4.1900e-003		158.2951
<b>Total</b>	<b>0.3120</b>	<b>9.0118</b>	<b>2.0389</b>	<b>0.0345</b>	<b>0.8538</b>	<b>0.0240</b>	<b>0.8778</b>	<b>0.2344</b>	<b>0.0229</b>	<b>0.2573</b>		<b>3,656.8807</b>	<b>3,656.8807</b>	<b>0.1893</b>		<b>3,661.6137</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.0854</b>	<b>0.0508</b>	<b>0.6846</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.2500e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1500e-003</b>	<b>0.0545</b>		<b>189.8284</b>	<b>189.8284</b>	<b>5.0300e-003</b>		<b>189.9541</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.0458</b>	<b>1.6126</b>	<b>8.6584</b>	<b>3.8730</b>	<b>1.4836</b>	<b>5.3565</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.0854</b>	<b>0.0508</b>	<b>0.6846</b>	<b>1.9100e-003</b>	<b>0.1855</b>	<b>1.2500e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1500e-003</b>	<b>0.0506</b>		<b>189.8284</b>	<b>189.8284</b>	<b>5.0300e-003</b>		<b>189.9541</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
<b>Total</b>	<b>0.0949</b>	<b>0.0565</b>	<b>0.7606</b>	<b>2.1200e-003</b>	<b>0.2236</b>	<b>1.3900e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2800e-003</b>	<b>0.0606</b>		<b>210.9205</b>	<b>210.9205</b>	<b>5.5900e-003</b>		<b>211.0601</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.6349</b>	<b>5.0175</b>	<b>1.4026</b>	<b>1.5041</b>	<b>2.9067</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
<b>Total</b>	<b>0.0949</b>	<b>0.0565</b>	<b>0.7606</b>	<b>2.1200e-003</b>	<b>0.2061</b>	<b>1.3900e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.2800e-003</b>	<b>0.0563</b>		<b>210.9205</b>	<b>210.9205</b>	<b>5.5900e-003</b>		<b>211.0601</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.9626	0.0636	6.0262	1.7168	0.0608	1.7777		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		24,206.5617	24,206.5617	0.5964		24,221.4717
<b>Total</b>	<b>12.2822</b>	<b>71.9980</b>	<b>96.8969</b>	<b>0.4850</b>	<b>32.6213</b>	<b>0.2247</b>	<b>32.8460</b>	<b>8.7868</b>	<b>0.2091</b>	<b>8.9959</b>		<b>49,759.6706</b>	<b>49,759.6706</b>	<b>1.8983</b>		<b>49,807.1282</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.5804	0.0636	5.6440	1.6230	0.0608	1.6838		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		24,206.5617	24,206.5617	0.5964		24,221.4717
<b>Total</b>	<b>12.2822</b>	<b>71.9980</b>	<b>96.8969</b>	<b>0.4850</b>	<b>30.1532</b>	<b>0.2247</b>	<b>30.3779</b>	<b>8.1810</b>	<b>0.2091</b>	<b>8.3901</b>		<b>49,759.6706</b>	<b>49,759.6706</b>	<b>1.8983</b>		<b>49,807.1282</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		152.2425	152.2425	3.7500e-003		152.3363
<b>Total</b>	<b>0.0666</b>	<b>0.0381</b>	<b>0.5238</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>152.2425</b>	<b>152.2425</b>	<b>3.7500e-003</b>		<b>152.3363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		152.2425	152.2425	3.7500e-003		152.3363
<b>Total</b>	<b>0.0666</b>	<b>0.0381</b>	<b>0.5238</b>	<b>1.5300e-003</b>	<b>0.1546</b>	<b>1.0100e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.3000e-004</b>	<b>0.0422</b>		<b>152.2425</b>	<b>152.2425</b>	<b>3.7500e-003</b>		<b>152.3363</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>166.5076</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,841.312 4	4,841.312 4	0.1193		4,844.294 3
<b>Total</b>	<b>2.1174</b>	<b>1.2130</b>	<b>16.6571</b>	<b>0.0486</b>	<b>5.3317</b>	<b>0.0322</b>	<b>5.3640</b>	<b>1.4140</b>	<b>0.0297</b>	<b>1.4437</b>		<b>4,841.312 4</b>	<b>4,841.312 4</b>	<b>0.1193</b>		<b>4,844.294 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>166.5076</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,841.312 4	4,841.312 4	0.1193		4,844.294 3
<b>Total</b>	<b>2.1174</b>	<b>1.2130</b>	<b>16.6571</b>	<b>0.0486</b>	<b>4.9146</b>	<b>0.0322</b>	<b>4.9468</b>	<b>1.3116</b>	<b>0.0297</b>	<b>1.3413</b>		<b>4,841.312 4</b>	<b>4,841.312 4</b>	<b>0.1193</b>		<b>4,844.294 3</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Unmitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,640,457</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283	
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136	
<b>Total</b>		<b>0.7071</b>	<b>6.4281</b>	<b>5.3996</b>	<b>0.0386</b>		<b>0.4885</b>	<b>0.4885</b>		<b>0.4885</b>	<b>0.4885</b>		<b>7,713.7317</b>	<b>7,713.7317</b>	<b>0.1479</b>	<b>0.1414</b>	<b>7,759.5706</b>	



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
<b>Total</b>		<b>0.6393</b>	<b>5.8119</b>	<b>4.8820</b>	<b>0.0349</b>		<b>0.4417</b>	<b>0.4417</b>		<b>0.4417</b>	<b>0.4417</b>		<b>6,974.2850</b>	<b>6,974.2850</b>	<b>0.1337</b>	<b>0.1279</b>	<b>7,015.7297</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

**UnMitigated/Mitigated**

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Forklifts	9.8438	92.1289	109.9000	0.1467		5.6930	5.6930		5.2376	5.2376		14,210.9597	14,210.9597	4.5961		14,325.8625
Tractors/Loaders/Backhoes	0.8826	8.2886	5.9936	0.0253		0.3007	0.3007		0.2767	0.2767		2,452.3608	2,452.3608	0.7931		2,472.1894
<b>Total</b>	<b>10.7264</b>	<b>100.4175</b>	<b>115.8936</b>	<b>0.1721</b>		<b>5.9937</b>	<b>5.9937</b>		<b>5.5142</b>	<b>5.5142</b>		<b>16,663.3205</b>	<b>16,663.3205</b>	<b>5.3893</b>		<b>16,798.0519</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**South Ontario Logistics Center Phase 1 - No Mitigation**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43

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tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06

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tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

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tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20

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tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40
tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71
tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003



## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

## 2.0 Emissions Summary

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
<b>Total</b>	<b>97.8926</b>	<b>369.7222</b>	<b>344.7489</b>	<b>2.0510</b>	<b>123.6769</b>	<b>8.7020</b>	<b>132.3789</b>	<b>33.6353</b>	<b>8.1141</b>	<b>41.7494</b>		<b>222,615.6253</b>	<b>222,615.6253</b>	<b>16.2191</b>	<b>0.1414</b>	<b>223,063.2444</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
<b>Total</b>	<b>97.8248</b>	<b>369.1060</b>	<b>344.2313</b>	<b>2.0473</b>	<b>123.6769</b>	<b>8.6551</b>	<b>132.3320</b>	<b>33.6353</b>	<b>8.0673</b>	<b>41.7025</b>		<b>221,876.1786</b>	<b>221,876.1786</b>	<b>16.2049</b>	<b>0.1279</b>	<b>222,319.4035</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.17</b>	<b>0.15</b>	<b>0.18</b>	<b>0.00</b>	<b>0.54</b>	<b>0.04</b>	<b>0.00</b>	<b>0.58</b>	<b>0.11</b>	<b>0.00</b>	<b>0.33</b>	<b>0.33</b>	<b>0.09</b>	<b>9.59</b>	<b>0.33</b>

**3.0 Construction Detail**

**Construction Phase**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 43.35**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)**

**OffRoad Equipment**

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>9.2795</b>	<b>1.2427</b>	<b>10.5221</b>	<b>1.4050</b>	<b>1.1553</b>	<b>2.5603</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.7503	0.0233	0.7736	0.2057	0.0223	0.2280		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
<b>Total</b>	<b>0.3234</b>	<b>9.0294</b>	<b>2.1411</b>	<b>0.0335</b>	<b>0.9180</b>	<b>0.0243</b>	<b>0.9423</b>	<b>0.2502</b>	<b>0.0232</b>	<b>0.2734</b>		<b>3,547.9397</b>	<b>3,547.9397</b>	<b>0.2048</b>		<b>3,553.0598</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>3.6190</b>	<b>1.2427</b>	<b>4.8617</b>	<b>0.5480</b>	<b>1.1553</b>	<b>1.7032</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.6993	0.0233	0.7225	0.1932	0.0223	0.2154		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		141.9219	141.9219	3.6800e-003		142.0139
<b>Total</b>	<b>0.3234</b>	<b>9.0294</b>	<b>2.1411</b>	<b>0.0335</b>	<b>0.8538</b>	<b>0.0243</b>	<b>0.8781</b>	<b>0.2344</b>	<b>0.0232</b>	<b>0.2576</b>		<b>3,547.9397</b>	<b>3,547.9397</b>	<b>0.2048</b>		<b>3,553.0598</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.0858</b>	<b>0.0534</b>	<b>0.5606</b>	<b>1.7100e-003</b>	<b>0.2012</b>	<b>1.2500e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1500e-003</b>	<b>0.0545</b>		<b>170.3063</b>	<b>170.3063</b>	<b>4.4100e-003</b>		<b>170.4166</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.0458</b>	<b>1.6126</b>	<b>8.6584</b>	<b>3.8730</b>	<b>1.4836</b>	<b>5.3565</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.0858</b>	<b>0.0534</b>	<b>0.5606</b>	<b>1.7100e-003</b>	<b>0.1855</b>	<b>1.2500e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1500e-003</b>	<b>0.0506</b>		<b>170.3063</b>	<b>170.3063</b>	<b>4.4100e-003</b>		<b>170.4166</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
<b>Total</b>	<b>0.0954</b>	<b>0.0594</b>	<b>0.6228</b>	<b>1.9000e-003</b>	<b>0.2236</b>	<b>1.3900e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2800e-003</b>	<b>0.0606</b>		<b>189.2292</b>	<b>189.2292</b>	<b>4.9000e-003</b>		<b>189.3518</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.6349</b>	<b>5.0175</b>	<b>1.4026</b>	<b>1.5041</b>	<b>2.9067</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
<b>Total</b>	<b>0.0954</b>	<b>0.0594</b>	<b>0.6228</b>	<b>1.9000e-003</b>	<b>0.2061</b>	<b>1.3900e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.2800e-003</b>	<b>0.0563</b>		<b>189.2292</b>	<b>189.2292</b>	<b>4.9000e-003</b>		<b>189.3518</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.9626	0.0659	6.0285	1.7168	0.0630	1.7799		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		21,718.6071	21,718.6071	0.5241		21,731.7104
<b>Total</b>	<b>12.4665</b>	<b>71.4109</b>	<b>83.6986</b>	<b>0.4506</b>	<b>32.6213</b>	<b>0.2270</b>	<b>32.8483</b>	<b>8.7868</b>	<b>0.2113</b>	<b>8.9981</b>		<b>46,287.5432</b>	<b>46,287.5432</b>	<b>1.9618</b>		<b>46,336.5892</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.5804	0.0659	5.6463	1.6230	0.0630	1.6860		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		21,718.6071	21,718.6071	0.5241		21,731.7104
<b>Total</b>	<b>12.4665</b>	<b>71.4109</b>	<b>83.6986</b>	<b>0.4506</b>	<b>30.1532</b>	<b>0.2270</b>	<b>30.3802</b>	<b>8.1810</b>	<b>0.2113</b>	<b>8.3923</b>		<b>46,287.5432</b>	<b>46,287.5432</b>	<b>1.9618</b>		<b>46,336.5892</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		136.5950	136.5950	3.3000e-003		136.6774
<b>Total</b>	<b>0.0671</b>	<b>0.0401</b>	<b>0.4283</b>	<b>1.3700e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>136.5950</b>	<b>136.5950</b>	<b>3.3000e-003</b>		<b>136.6774</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		136.5950	136.5950	3.3000e-003		136.6774
<b>Total</b>	<b>0.0671</b>	<b>0.0401</b>	<b>0.4283</b>	<b>1.3700e-003</b>	<b>0.1546</b>	<b>1.0100e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.3000e-004</b>	<b>0.0422</b>		<b>136.5950</b>	<b>136.5950</b>	<b>3.3000e-003</b>		<b>136.6774</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>166.5076</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,343.721 4	4,343.721 4	0.1048		4,346.342 1
<b>Total</b>	<b>2.1338</b>	<b>1.2745</b>	<b>13.6186</b>	<b>0.0436</b>	<b>5.3317</b>	<b>0.0322</b>	<b>5.3640</b>	<b>1.4140</b>	<b>0.0297</b>	<b>1.4437</b>		<b>4,343.721 4</b>	<b>4,343.721 4</b>	<b>0.1048</b>		<b>4,346.342 1</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>166.5076</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,343.721 4	4,343.721 4	0.1048		4,346.342 1
<b>Total</b>	<b>2.1338</b>	<b>1.2745</b>	<b>13.6186</b>	<b>0.0436</b>	<b>4.9146</b>	<b>0.0322</b>	<b>4.9468</b>	<b>1.3116</b>	<b>0.0297</b>	<b>1.3413</b>		<b>4,343.721 4</b>	<b>4,343.721 4</b>	<b>0.1048</b>		<b>4,346.342 1</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Unmitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,640,457</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136
<b>Total</b>		<b>0.7071</b>	<b>6.4281</b>	<b>5.3996</b>	<b>0.0386</b>		<b>0.4885</b>	<b>0.4885</b>		<b>0.4885</b>	<b>0.4885</b>		<b>7,713.7317</b>	<b>7,713.7317</b>	<b>0.1479</b>	<b>0.1414</b>	<b>7,759.5706</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412		
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584		
<b>Total</b>		<b>0.6393</b>	<b>5.8119</b>	<b>4.8820</b>	<b>0.0349</b>		<b>0.4417</b>	<b>0.4417</b>		<b>0.4417</b>	<b>0.4417</b>		<b>6,974.2850</b>	<b>6,974.2850</b>	<b>0.1337</b>	<b>0.1279</b>	<b>7,015.7297</b>		

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

**UnMitigated/Mitigated**

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Forklifts	9.8438	92.1289	109.9000	0.1467		5.6930	5.6930		5.2376	5.2376		14,210.9597	14,210.9597	4.5961		14,325.8625
Tractors/Loaders/Backhoes	0.8826	8.2886	5.9936	0.0253		0.3007	0.3007		0.2767	0.2767		2,452.3608	2,452.3608	0.7931		2,472.1894
<b>Total</b>	<b>10.7264</b>	<b>100.4175</b>	<b>115.8936</b>	<b>0.1721</b>		<b>5.9937</b>	<b>5.9937</b>		<b>5.5142</b>	<b>5.5142</b>		<b>16,663.3205</b>	<b>16,663.3205</b>	<b>5.3893</b>		<b>16,798.0519</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

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South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**South Ontario Logistics Center Phase 1 - with Mitigation**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003
tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71
tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
<b>Total</b>	<b>87.9707</b>	<b>257.6786</b>	<b>257.0042</b>	<b>1.9313</b>	<b>123.6769</b>	<b>2.7066</b>	<b>126.3835</b>	<b>33.6353</b>	<b>2.5983</b>	<b>36.2336</b>		<b>211,235.9685</b>	<b>211,235.9685</b>	<b>10.8246</b>	<b>0.1414</b>	<b>211,548.7253</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	15.4657	251.1600	248.9328	1.8849	122.6917	2.2120	124.9037	33.3741	2.1041	35.4782		202,730.5536	202,730.5536	10.6667		202,997.2203
<b>Total</b>	<b>80.4949</b>	<b>256.9766</b>	<b>254.3330</b>	<b>1.9198</b>	<b>122.6917</b>	<b>2.6556</b>	<b>125.3473</b>	<b>33.3741</b>	<b>2.5476</b>	<b>35.9217</b>		<b>209,705.9495</b>	<b>209,705.9495</b>	<b>10.8033</b>	<b>0.1279</b>	<b>210,014.1337</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.50	0.27	1.04	0.60	0.80	1.88	0.82	0.78	1.95	0.86	0.00	0.72	0.72	0.20	9.59	0.73

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

#### OffRoad Equipment

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>9.2795</b>	<b>1.2427</b>	<b>10.5221</b>	<b>1.4050</b>	<b>1.1553</b>	<b>2.5603</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.7503	0.0229	0.7732	0.2057	0.0219	0.2276		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
<b>Total</b>	<b>0.3120</b>	<b>9.0118</b>	<b>2.0389</b>	<b>0.0345</b>	<b>0.9180</b>	<b>0.0240</b>	<b>0.9419</b>	<b>0.2502</b>	<b>0.0229</b>	<b>0.2731</b>		<b>3,656.8807</b>	<b>3,656.8807</b>	<b>0.1893</b>		<b>3,661.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>3.6190</b>	<b>1.2427</b>	<b>4.8617</b>	<b>0.5480</b>	<b>1.1553</b>	<b>1.7032</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.6993	0.0229	0.7222	0.1932	0.0219	0.2151		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		158.1904	158.1904	4.1900e-003		158.2951
<b>Total</b>	<b>0.3120</b>	<b>9.0118</b>	<b>2.0389</b>	<b>0.0345</b>	<b>0.8538</b>	<b>0.0240</b>	<b>0.8778</b>	<b>0.2344</b>	<b>0.0229</b>	<b>0.2573</b>		<b>3,656.8807</b>	<b>3,656.8807</b>	<b>0.1893</b>		<b>3,661.6137</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.0854</b>	<b>0.0508</b>	<b>0.6846</b>	<b>1.9100e-003</b>	<b>0.2012</b>	<b>1.2500e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1500e-003</b>	<b>0.0545</b>		<b>189.8284</b>	<b>189.8284</b>	<b>5.0300e-003</b>		<b>189.9541</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.0458</b>	<b>1.6126</b>	<b>8.6584</b>	<b>3.8730</b>	<b>1.4836</b>	<b>5.3565</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		189.8284	189.8284	5.0300e-003		189.9541
<b>Total</b>	<b>0.0854</b>	<b>0.0508</b>	<b>0.6846</b>	<b>1.9100e-003</b>	<b>0.1855</b>	<b>1.2500e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1500e-003</b>	<b>0.0506</b>		<b>189.8284</b>	<b>189.8284</b>	<b>5.0300e-003</b>		<b>189.9541</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
<b>Total</b>	<b>0.0949</b>	<b>0.0565</b>	<b>0.7606</b>	<b>2.1200e-003</b>	<b>0.2236</b>	<b>1.3900e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2800e-003</b>	<b>0.0606</b>		<b>210.9205</b>	<b>210.9205</b>	<b>5.5900e-003</b>		<b>211.0601</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.6349</b>	<b>5.0175</b>	<b>1.4026</b>	<b>1.5041</b>	<b>2.9067</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
<b>Total</b>	<b>0.0949</b>	<b>0.0565</b>	<b>0.7606</b>	<b>2.1200e-003</b>	<b>0.2061</b>	<b>1.3900e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.2800e-003</b>	<b>0.0563</b>		<b>210.9205</b>	<b>210.9205</b>	<b>5.5900e-003</b>		<b>211.0601</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.9626	0.0636	6.0262	1.7168	0.0608	1.7777		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		24,206.5617	24,206.5617	0.5964		24,221.4717
<b>Total</b>	<b>12.2822</b>	<b>71.9980</b>	<b>96.8969</b>	<b>0.4850</b>	<b>32.6213</b>	<b>0.2247</b>	<b>32.8460</b>	<b>8.7868</b>	<b>0.2091</b>	<b>8.9959</b>		<b>49,759.6706</b>	<b>49,759.6706</b>	<b>1.8983</b>		<b>49,807.1282</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.5804	0.0636	5.6440	1.6230	0.0608	1.6838		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		24,206.5617	24,206.5617	0.5964		24,221.4717
<b>Total</b>	<b>12.2822</b>	<b>71.9980</b>	<b>96.8969</b>	<b>0.4850</b>	<b>30.1532</b>	<b>0.2247</b>	<b>30.3779</b>	<b>8.1810</b>	<b>0.2091</b>	<b>8.3901</b>		<b>49,759.6706</b>	<b>49,759.6706</b>	<b>1.8983</b>		<b>49,807.1282</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		152.2425	152.2425	3.7500e-003		152.3363
<b>Total</b>	<b>0.0666</b>	<b>0.0381</b>	<b>0.5238</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>152.2425</b>	<b>152.2425</b>	<b>3.7500e-003</b>		<b>152.3363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		152.2425	152.2425	3.7500e-003		152.3363
<b>Total</b>	<b>0.0666</b>	<b>0.0381</b>	<b>0.5238</b>	<b>1.5300e-003</b>	<b>0.1546</b>	<b>1.0100e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.3000e-004</b>	<b>0.0422</b>		<b>152.2425</b>	<b>152.2425</b>	<b>3.7500e-003</b>		<b>152.3363</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>33.4549</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,841.312 4	4,841.312 4	0.1193		4,844.294 3
<b>Total</b>	<b>2.1174</b>	<b>1.2130</b>	<b>16.6571</b>	<b>0.0486</b>	<b>5.3317</b>	<b>0.0322</b>	<b>5.3640</b>	<b>1.4140</b>	<b>0.0297</b>	<b>1.4437</b>		<b>4,841.312 4</b>	<b>4,841.312 4</b>	<b>0.1193</b>		<b>4,844.294 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>33.4549</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,841.312 4	4,841.312 4	0.1193		4,844.294 3
<b>Total</b>	<b>2.1174</b>	<b>1.2130</b>	<b>16.6571</b>	<b>0.0486</b>	<b>4.9146</b>	<b>0.0322</b>	<b>4.9468</b>	<b>1.3116</b>	<b>0.0297</b>	<b>1.3413</b>		<b>4,841.312 4</b>	<b>4,841.312 4</b>	<b>0.1193</b>		<b>4,844.294 3</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.4657	251.1600	248.9328	1.8849	122.6917	2.2120	124.9037	33.3741	2.1041	35.4782		202,730.5536	202,730.5536	10.6667		202,997.2203
Unmitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,168,411</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283	
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136	
<b>Total</b>		<b>0.7071</b>	<b>6.4281</b>	<b>5.3996</b>	<b>0.0386</b>		<b>0.4885</b>	<b>0.4885</b>		<b>0.4885</b>	<b>0.4885</b>		<b>7,713.7317</b>	<b>7,713.7317</b>	<b>0.1479</b>	<b>0.1414</b>	<b>7,759.5706</b>	

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
<b>Total</b>		<b>0.6393</b>	<b>5.8119</b>	<b>4.8820</b>	<b>0.0349</b>		<b>0.4417</b>	<b>0.4417</b>		<b>0.4417</b>	<b>0.4417</b>		<b>6,974.2850</b>	<b>6,974.2850</b>	<b>0.1337</b>	<b>0.1279</b>	<b>7,015.7297</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>64.3899</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**South Ontario Logistics Center Phase 1 - with Mitigation**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003
tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71
tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03



## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
<b>Total</b>	<b>87.1661</b>	<b>269.3047</b>	<b>228.8553</b>	<b>1.8789</b>	<b>123.6769</b>	<b>2.7083</b>	<b>126.3851</b>	<b>33.6353</b>	<b>2.5999</b>	<b>36.2352</b>		<b>205,952.3048</b>	<b>205,952.3048</b>	<b>10.8298</b>	<b>0.1414</b>	<b>206,265.1925</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	14.6644	262.7814	221.2218	1.8332	122.6917	2.2137	124.9054	33.3741	2.1057	35.4798		197,518.4860	197,518.4860	10.6729		197,785.3072
<b>Total</b>	<b>79.6936</b>	<b>268.5980</b>	<b>226.6220</b>	<b>1.8681</b>	<b>122.6917</b>	<b>2.6573</b>	<b>125.3489</b>	<b>33.3741</b>	<b>2.5492</b>	<b>35.9233</b>		<b>204,493.8819</b>	<b>204,493.8819</b>	<b>10.8094</b>	<b>0.1279</b>	<b>204,802.2205</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	8.57	0.26	0.98	0.58	0.80	1.88	0.82	0.78	1.95	0.86	0.00	0.71	0.71	0.19	9.59	0.71

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

#### OffRoad Equipment

## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>9.2795</b>	<b>1.2427</b>	<b>10.5221</b>	<b>1.4050</b>	<b>1.1553</b>	<b>2.5603</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.7503	0.0233	0.7736	0.2057	0.0223	0.2280		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
<b>Total</b>	<b>0.3234</b>	<b>9.0294</b>	<b>2.1411</b>	<b>0.0335</b>	<b>0.9180</b>	<b>0.0243</b>	<b>0.9423</b>	<b>0.2502</b>	<b>0.0232</b>	<b>0.2734</b>		<b>3,547.9397</b>	<b>3,547.9397</b>	<b>0.2048</b>		<b>3,553.0598</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>3.6190</b>	<b>1.2427</b>	<b>4.8617</b>	<b>0.5480</b>	<b>1.1553</b>	<b>1.7032</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.6993	0.0233	0.7225	0.1932	0.0223	0.2154		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		141.9219	141.9219	3.6800e-003		142.0139
<b>Total</b>	<b>0.3234</b>	<b>9.0294</b>	<b>2.1411</b>	<b>0.0335</b>	<b>0.8538</b>	<b>0.0243</b>	<b>0.8781</b>	<b>0.2344</b>	<b>0.0232</b>	<b>0.2576</b>		<b>3,547.9397</b>	<b>3,547.9397</b>	<b>0.2048</b>		<b>3,553.0598</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.0663</b>	<b>1.6126</b>	<b>19.6788</b>	<b>9.9307</b>	<b>1.4836</b>	<b>11.4143</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.0858</b>	<b>0.0534</b>	<b>0.5606</b>	<b>1.7100e-003</b>	<b>0.2012</b>	<b>1.2500e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1500e-003</b>	<b>0.0545</b>		<b>170.3063</b>	<b>170.3063</b>	<b>4.4100e-003</b>		<b>170.4166</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>7.0458</b>	<b>1.6126</b>	<b>8.6584</b>	<b>3.8730</b>	<b>1.4836</b>	<b>5.3565</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		170.3063	170.3063	4.4100e-003		170.4166
<b>Total</b>	<b>0.0858</b>	<b>0.0534</b>	<b>0.5606</b>	<b>1.7100e-003</b>	<b>0.1855</b>	<b>1.2500e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1500e-003</b>	<b>0.0506</b>		<b>170.3063</b>	<b>170.3063</b>	<b>4.4100e-003</b>		<b>170.4166</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
<b>Total</b>	<b>0.0954</b>	<b>0.0594</b>	<b>0.6228</b>	<b>1.9000e-003</b>	<b>0.2236</b>	<b>1.3900e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2800e-003</b>	<b>0.0606</b>		<b>189.2292</b>	<b>189.2292</b>	<b>4.9000e-003</b>		<b>189.3518</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.6349</b>	<b>5.0175</b>	<b>1.4026</b>	<b>1.5041</b>	<b>2.9067</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
<b>Total</b>	<b>0.0954</b>	<b>0.0594</b>	<b>0.6228</b>	<b>1.9000e-003</b>	<b>0.2061</b>	<b>1.3900e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.2800e-003</b>	<b>0.0563</b>		<b>189.2292</b>	<b>189.2292</b>	<b>4.9000e-003</b>		<b>189.3518</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.9626	0.0659	6.0285	1.7168	0.0630	1.7799		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		21,718.6071	21,718.6071	0.5241		21,731.7104
<b>Total</b>	<b>12.4665</b>	<b>71.4109</b>	<b>83.6986</b>	<b>0.4506</b>	<b>32.6213</b>	<b>0.2270</b>	<b>32.8483</b>	<b>8.7868</b>	<b>0.2113</b>	<b>8.9981</b>		<b>46,287.5432</b>	<b>46,287.5432</b>	<b>1.9618</b>		<b>46,336.5892</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.5804	0.0659	5.6463	1.6230	0.0630	1.6860		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		21,718.6071	21,718.6071	0.5241		21,731.7104
<b>Total</b>	<b>12.4665</b>	<b>71.4109</b>	<b>83.6986</b>	<b>0.4506</b>	<b>30.1532</b>	<b>0.2270</b>	<b>30.3802</b>	<b>8.1810</b>	<b>0.2113</b>	<b>8.3923</b>		<b>46,287.5432</b>	<b>46,287.5432</b>	<b>1.9618</b>		<b>46,336.5892</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		136.5950	136.5950	3.3000e-003		136.6774
<b>Total</b>	<b>0.0671</b>	<b>0.0401</b>	<b>0.4283</b>	<b>1.3700e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>136.5950</b>	<b>136.5950</b>	<b>3.3000e-003</b>		<b>136.6774</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2947</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		136.5950	136.5950	3.3000e-003		136.6774
<b>Total</b>	<b>0.0671</b>	<b>0.0401</b>	<b>0.4283</b>	<b>1.3700e-003</b>	<b>0.1546</b>	<b>1.0100e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.3000e-004</b>	<b>0.0422</b>		<b>136.5950</b>	<b>136.5950</b>	<b>3.3000e-003</b>		<b>136.6774</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>33.4549</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,343.721 4	4,343.721 4	0.1048		4,346.342 1
<b>Total</b>	<b>2.1338</b>	<b>1.2745</b>	<b>13.6186</b>	<b>0.0436</b>	<b>5.3317</b>	<b>0.0322</b>	<b>5.3640</b>	<b>1.4140</b>	<b>0.0297</b>	<b>1.4437</b>		<b>4,343.721 4</b>	<b>4,343.721 4</b>	<b>0.1048</b>		<b>4,346.342 1</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>33.4549</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>



South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,343.721 4	4,343.721 4	0.1048		4,346.342 1
<b>Total</b>	<b>2.1338</b>	<b>1.2745</b>	<b>13.6186</b>	<b>0.0436</b>	<b>4.9146</b>	<b>0.0322</b>	<b>4.9468</b>	<b>1.3116</b>	<b>0.0297</b>	<b>1.3413</b>		<b>4,343.721 4</b>	<b>4,343.721 4</b>	<b>0.1048</b>		<b>4,346.342 1</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.6644	262.7814	221.2218	1.8332	122.6917	2.2137	124.9054	33.3741	2.1057	35.4798		197,518.4860	197,518.4860	10.6729		197,785.3072
Unmitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,168,411</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283		
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136		
<b>Total</b>		<b>0.7071</b>	<b>6.4281</b>	<b>5.3996</b>	<b>0.0386</b>		<b>0.4885</b>	<b>0.4885</b>		<b>0.4885</b>	<b>0.4885</b>		<b>7,713.7317</b>	<b>7,713.7317</b>	<b>0.1479</b>	<b>0.1414</b>	<b>7,759.5706</b>		

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
<b>Total</b>		<b>0.6393</b>	<b>5.8119</b>	<b>4.8820</b>	<b>0.0349</b>		<b>0.4417</b>	<b>0.4417</b>		<b>0.4417</b>	<b>0.4417</b>		<b>6,974.2850</b>	<b>6,974.2850</b>	<b>0.1337</b>	<b>0.1279</b>	<b>7,015.7297</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>71.7716</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
<b>Total</b>	<b>64.3899</b>	<b>4.7200e-003</b>	<b>0.5182</b>	<b>4.0000e-005</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.1109</b>	<b>1.1109</b>	<b>2.9100e-003</b>		<b>1.1837</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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## South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**South Ontario Logistics Center Phase 2 - No Mitigation**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 + 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf = 8.8123567042882724785755114351824 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12
tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22

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tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

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tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

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tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

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tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09

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tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14



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tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

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tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003

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tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

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tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

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tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

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tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03

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tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

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tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

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tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

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tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003
tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94
tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
<b>Total</b>	<b>69.7198</b>	<b>291.7845</b>	<b>301.1072</b>	<b>1.5924</b>	<b>89.7465</b>	<b>7.4287</b>	<b>97.1752</b>	<b>24.4175</b>	<b>6.9114</b>	<b>31.3290</b>		<b>171,690.5427</b>	<b>171,690.5427</b>	<b>13.9057</b>	<b>0.0984</b>	<b>172,067.4957</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
<b>Total</b>	<b>69.6714</b>	<b>291.3442</b>	<b>300.7374</b>	<b>1.5897</b>	<b>89.7465</b>	<b>7.3952</b>	<b>97.1417</b>	<b>24.4175</b>	<b>6.8780</b>	<b>31.2955</b>		<b>171,162.2440</b>	<b>171,162.2440</b>	<b>13.8956</b>	<b>0.0887</b>	<b>171,536.0576</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.15</b>	<b>0.12</b>	<b>0.17</b>	<b>0.00</b>	<b>0.45</b>	<b>0.03</b>	<b>0.00</b>	<b>0.48</b>	<b>0.11</b>	<b>0.00</b>	<b>0.31</b>	<b>0.31</b>	<b>0.07</b>	<b>9.85</b>	<b>0.31</b>

**3.0 Construction Detail**

**Construction Phase**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 30.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)**

**OffRoad Equipment**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		182.6910	182.6910	4.5000e-003		182.8036
<b>Total</b>	<b>0.0799</b>	<b>0.0458</b>	<b>0.6286</b>	<b>1.8300e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>182.6910</b>	<b>182.6910</b>	<b>4.5000e-003</b>		<b>182.8036</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>7.0458</b>	<b>1.2660</b>	<b>8.3119</b>	<b>3.8730</b>	<b>1.1647</b>	<b>5.0377</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		182.6910	182.6910	4.5000e-003		182.8036
<b>Total</b>	<b>0.0799</b>	<b>0.0458</b>	<b>0.6286</b>	<b>1.8300e-003</b>	<b>0.1855</b>	<b>1.2200e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1200e-003</b>	<b>0.0506</b>		<b>182.6910</b>	<b>182.6910</b>	<b>4.5000e-003</b>		<b>182.8036</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.3354</b>	<b>10.0087</b>	<b>3.5965</b>	<b>1.2286</b>	<b>4.8251</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		196.4072	196.4072	4.5600e-003		196.5213
<b>Total</b>	<b>0.0835</b>	<b>0.0461</b>	<b>0.6513</b>	<b>1.9700e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>196.4072</b>	<b>196.4072</b>	<b>4.5600e-003</b>		<b>196.5213</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.3354</b>	<b>4.7180</b>	<b>1.4026</b>	<b>1.2286</b>	<b>2.6312</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		196.4072	196.4072	4.5600e-003		196.5213
<b>Total</b>	<b>0.0835</b>	<b>0.0461</b>	<b>0.6513</b>	<b>1.9700e-003</b>	<b>0.2061</b>	<b>1.3400e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2300e-003</b>	<b>0.0562</b>		<b>196.4072</b>	<b>196.4072</b>	<b>4.5600e-003</b>		<b>196.5213</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	4.2013	0.0447	4.2460	1.2097	0.0427	1.2524		17,982.20 47	17,982.20 47	0.9166		18,005.11 94
Worker	7.0167	3.8713	54.7088	0.1656	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		16,498.20 17	16,498.20 17	0.3835		16,507.78 80
<b>Total</b>	<b>8.1941</b>	<b>50.5450</b>	<b>63.9337</b>	<b>0.3358</b>	<b>22.9798</b>	<b>0.1571</b>	<b>23.1369</b>	<b>6.1898</b>	<b>0.1462</b>	<b>6.3360</b>		<b>34,480.40 63</b>	<b>34,480.40 63</b>	<b>1.3001</b>		<b>34,512.90 74</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	3.9320	0.0447	3.9767	1.1436	0.0427	1.1863		17,982.20 47	17,982.20 47	0.9166		18,005.11 94
Worker	7.0167	3.8713	54.7088	0.1656	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		16,498.20 17	16,498.20 17	0.3835		16,507.78 80
<b>Total</b>	<b>8.1941</b>	<b>50.5450</b>	<b>63.9337</b>	<b>0.3358</b>	<b>21.2412</b>	<b>0.1571</b>	<b>21.3983</b>	<b>5.7631</b>	<b>0.1462</b>	<b>5.9093</b>		<b>34,480.40 63</b>	<b>34,480.40 63</b>	<b>1.3001</b>		<b>34,512.90 74</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		147.3054	147.3054	3.4200e-003		147.3910
<b>Total</b>	<b>0.0627</b>	<b>0.0346</b>	<b>0.4885</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0000e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.2000e-004</b>	<b>0.0454</b>		<b>147.3054</b>	<b>147.3054</b>	<b>3.4200e-003</b>		<b>147.3910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		147.3054	147.3054	3.4200e-003		147.3910
<b>Total</b>	<b>0.0627</b>	<b>0.0346</b>	<b>0.4885</b>	<b>1.4800e-003</b>	<b>0.1546</b>	<b>1.0000e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.2000e-004</b>	<b>0.0422</b>		<b>147.3054</b>	<b>147.3054</b>	<b>3.4200e-003</b>		<b>147.3910</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>117.5723</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		3,299.640 3	3,299.640 3	0.0767		3,301.557 6
<b>Total</b>	<b>1.4034</b>	<b>0.7743</b>	<b>10.9418</b>	<b>0.0331</b>	<b>3.7557</b>	<b>0.0225</b>	<b>3.7782</b>	<b>0.9960</b>	<b>0.0207</b>	<b>1.0167</b>		<b>3,299.640 3</b>	<b>3,299.640 3</b>	<b>0.0767</b>		<b>3,301.557 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>117.5723</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		3,299.640 3	3,299.640 3	0.0767		3,301.557 6
<b>Total</b>	<b>1.4034</b>	<b>0.7743</b>	<b>10.9418</b>	<b>0.0331</b>	<b>3.4618</b>	<b>0.0225</b>	<b>3.4843</b>	<b>0.9239</b>	<b>0.0207</b>	<b>0.9446</b>		<b>3,299.640 3</b>	<b>3,299.640 3</b>	<b>0.0767</b>		<b>3,301.557 6</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Unmitigated	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>40,329,437</b>	<b>40,329,437</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796		
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014		
<b>Total</b>		<b>0.4918</b>	<b>4.4708</b>	<b>3.7555</b>	<b>0.0268</b>		<b>0.3398</b>	<b>0.3398</b>		<b>0.3398</b>	<b>0.3398</b>		<b>5,364.9174</b>	<b>5,364.9174</b>	<b>0.1028</b>	<b>0.0984</b>	<b>5,396.7984</b>		



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537
<b>Total</b>		<b>0.4434</b>	<b>4.0305</b>	<b>3.3856</b>	<b>0.0242</b>		<b>0.3063</b>	<b>0.3063</b>		<b>0.3063</b>	<b>0.3063</b>		<b>4,836.6187</b>	<b>4,836.6187</b>	<b>0.0927</b>	<b>0.0887</b>	<b>4,865.3603</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>47.7671</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>47.7671</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.0881	85.2423	109.9200	0.1475		4.9227	4.9227		4.5289	4.5289		14,282.0145	14,282.0145	4.6191		14,397.4919
Tractors/Loaders/Backhoes	1.7426	15.5059	11.9716	0.0505		0.5666	0.5666		0.5213	0.5213		4,886.5275	4,886.5275	1.5804		4,926.0376
<b>Total</b>	<b>10.8307</b>	<b>100.7482</b>	<b>121.8916</b>	<b>0.1980</b>		<b>5.4894</b>	<b>5.4894</b>		<b>5.0502</b>	<b>5.0502</b>		<b>19,168.5421</b>	<b>19,168.5421</b>	<b>6.1995</b>		<b>19,323.5294</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

**11.0 Vegetation**

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**South Ontario Logistics Center Phase 2 - No Mitigation**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 + 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use  $4178/474.107$  ksf = 8.8123567042882724785755114351824 , truck trip rate shown under unrefrigerated w/h  $1036/1536.163$  ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12
tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03

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tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003

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tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22



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tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003
tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04



## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94
tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

## South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
<b>Total</b>	<b>69.1879</b>	<b>300.4033</b>	<b>281.9166</b>	<b>1.5559</b>	<b>89.7465</b>	<b>7.4299</b>	<b>97.1764</b>	<b>24.4175</b>	<b>6.9126</b>	<b>31.3301</b>		<b>167,999.0921</b>	<b>167,999.0921</b>	<b>13.9091</b>	<b>0.0984</b>	<b>168,376.1296</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
<b>Total</b>	<b>69.1395</b>	<b>299.9630</b>	<b>281.5468</b>	<b>1.5533</b>	<b>89.7465</b>	<b>7.3964</b>	<b>97.1429</b>	<b>24.4175</b>	<b>6.8791</b>	<b>31.2966</b>		<b>167,470.7934</b>	<b>167,470.7934</b>	<b>13.8990</b>	<b>0.0887</b>	<b>167,844.6915</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.15</b>	<b>0.13</b>	<b>0.17</b>	<b>0.00</b>	<b>0.45</b>	<b>0.03</b>	<b>0.00</b>	<b>0.48</b>	<b>0.11</b>	<b>0.00</b>	<b>0.31</b>	<b>0.31</b>	<b>0.07</b>	<b>9.85</b>	<b>0.32</b>

**3.0 Construction Detail**

**Construction Phase**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 30.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)**

**OffRoad Equipment**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		163.9140	163.9140	3.9600e-003		164.0129
<b>Total</b>	<b>0.0805</b>	<b>0.0481</b>	<b>0.5139</b>	<b>1.6400e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>163.9140</b>	<b>163.9140</b>	<b>3.9600e-003</b>		<b>164.0129</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>7.0458</b>	<b>1.2660</b>	<b>8.3119</b>	<b>3.8730</b>	<b>1.1647</b>	<b>5.0377</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		163.9140	163.9140	3.9600e-003		164.0129
<b>Total</b>	<b>0.0805</b>	<b>0.0481</b>	<b>0.5139</b>	<b>1.6400e-003</b>	<b>0.1855</b>	<b>1.2200e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1200e-003</b>	<b>0.0506</b>		<b>163.9140</b>	<b>163.9140</b>	<b>3.9600e-003</b>		<b>164.0129</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.3354</b>	<b>10.0087</b>	<b>3.5965</b>	<b>1.2286</b>	<b>4.8251</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		176.2225	176.2225	4.0100e-003		176.3229
<b>Total</b>	<b>0.0844</b>	<b>0.0484</b>	<b>0.5315</b>	<b>1.7700e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>176.2225</b>	<b>176.2225</b>	<b>4.0100e-003</b>		<b>176.3229</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.3354</b>	<b>4.7180</b>	<b>1.4026</b>	<b>1.2286</b>	<b>2.6312</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		176.2225	176.2225	4.0100e-003		176.3229
<b>Total</b>	<b>0.0844</b>	<b>0.0484</b>	<b>0.5315</b>	<b>1.7700e-003</b>	<b>0.2061</b>	<b>1.3400e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2300e-003</b>	<b>0.0562</b>		<b>176.2225</b>	<b>176.2225</b>	<b>4.0100e-003</b>		<b>176.3229</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	4.2013	0.0462	4.2475	1.2097	0.0441	1.2538		17,296.46 10	17,296.46 10	1.0129		17,321.78 38
Worker	7.0909	4.0651	44.6494	0.1485	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		14,802.68 97	14,802.68 97	0.3372		14,811.11 99
<b>Total</b>	<b>8.3391</b>	<b>50.1284</b>	<b>55.2488</b>	<b>0.3123</b>	<b>22.9798</b>	<b>0.1586</b>	<b>23.1383</b>	<b>6.1898</b>	<b>0.1476</b>	<b>6.3374</b>		<b>32,099.15 07</b>	<b>32,099.15 07</b>	<b>1.3501</b>		<b>32,132.90 37</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	3.9320	0.0462	3.9782	1.1436	0.0441	1.1877		17,296.46 10	17,296.46 10	1.0129		17,321.78 38
Worker	7.0909	4.0651	44.6494	0.1485	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		14,802.68 97	14,802.68 97	0.3372		14,811.11 99
<b>Total</b>	<b>8.3391</b>	<b>50.1284</b>	<b>55.2488</b>	<b>0.3123</b>	<b>21.2412</b>	<b>0.1586</b>	<b>21.3997</b>	<b>5.7631</b>	<b>0.1476</b>	<b>5.9107</b>		<b>32,099.15 07</b>	<b>32,099.15 07</b>	<b>1.3501</b>		<b>32,132.90 37</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		132.1669	132.1669	3.0100e-003		132.2421
<b>Total</b>	<b>0.0633</b>	<b>0.0363</b>	<b>0.3987</b>	<b>1.3300e-003</b>	<b>0.1677</b>	<b>1.0000e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.2000e-004</b>	<b>0.0454</b>		<b>132.1669</b>	<b>132.1669</b>	<b>3.0100e-003</b>		<b>132.2421</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		132.1669	132.1669	3.0100e-003		132.2421
<b>Total</b>	<b>0.0633</b>	<b>0.0363</b>	<b>0.3987</b>	<b>1.3300e-003</b>	<b>0.1546</b>	<b>1.0000e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.2000e-004</b>	<b>0.0422</b>		<b>132.1669</b>	<b>132.1669</b>	<b>3.0100e-003</b>		<b>132.2421</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>117.5723</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		2,960.5380	2,960.5380	0.0674		2,962.2240
<b>Total</b>	<b>1.4182</b>	<b>0.8130</b>	<b>8.9299</b>	<b>0.0297</b>	<b>3.7557</b>	<b>0.0225</b>	<b>3.7782</b>	<b>0.9960</b>	<b>0.0207</b>	<b>1.0167</b>		<b>2,960.5380</b>	<b>2,960.5380</b>	<b>0.0674</b>		<b>2,962.2240</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>117.5723</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		2,960.538 0	2,960.538 0	0.0674		2,962.224 0
<b>Total</b>	<b>1.4182</b>	<b>0.8130</b>	<b>8.9299</b>	<b>0.0297</b>	<b>3.4618</b>	<b>0.0225</b>	<b>3.4843</b>	<b>0.9239</b>	<b>0.0207</b>	<b>0.9446</b>		<b>2,960.538 0</b>	<b>2,960.538 0</b>	<b>0.0674</b>		<b>2,962.224 0</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Unmitigated	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>40,329,437</b>	<b>40,329,437</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
<b>Total</b>		<b>0.4918</b>	<b>4.4708</b>	<b>3.7555</b>	<b>0.0268</b>		<b>0.3398</b>	<b>0.3398</b>		<b>0.3398</b>	<b>0.3398</b>		<b>5,364.9174</b>	<b>5,364.9174</b>	<b>0.1028</b>	<b>0.0984</b>	<b>5,396.7984</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144		
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537		
<b>Total</b>		<b>0.4434</b>	<b>4.0305</b>	<b>3.3856</b>	<b>0.0242</b>		<b>0.3063</b>	<b>0.3063</b>		<b>0.3063</b>	<b>0.3063</b>		<b>4,836.6187</b>	<b>4,836.6187</b>	<b>0.0927</b>	<b>0.0887</b>	<b>4,865.3603</b>		

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>47.7671</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>47.7671</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services



South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.0881	85.2423	109.9200	0.1475		4.9227	4.9227		4.5289	4.5289		14,282.0145	14,282.0145	4.6191		14,397.4919
Tractors/Loaders/Backhoes	1.7426	15.5059	11.9716	0.0505		0.5666	0.5666		0.5213	0.5213		4,886.5275	4,886.5275	1.5804		4,926.0376
<b>Total</b>	<b>10.8307</b>	<b>100.7482</b>	<b>121.8916</b>	<b>0.1980</b>		<b>5.4894</b>	<b>5.4894</b>		<b>5.0502</b>	<b>5.0502</b>		<b>19,168.5421</b>	<b>19,168.5421</b>	<b>6.1995</b>		<b>19,323.5294</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

**11.0 Vegetation**

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South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**South Ontario Logistics Center Phase 2 - With Mitigation**  
**San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use  $4178/474.107$  ksf = 8.8123567042882724785755114351824 , truck trip rate shown under unrefrigerated w/h  $1036/1536.163$  ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

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tblAreaCoating	Area_EF_Parking	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006

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tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
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tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
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tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13

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tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
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tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
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tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006

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tblVehicleEF	HHD	0.06	9.9020e-003
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tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
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tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20

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tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16

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tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003

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tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

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tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30

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tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25



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tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

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tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

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tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02



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tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03



## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

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tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

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tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01

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tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26

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tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08



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tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06



## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	9.7440	128.1884	165.9157	1.0608	79.3244	1.1385	80.4629	21.4384	1.0801	22.5185		113,108.0287	113,108.0287	5.2497		113,239.2710
<b>Total</b>	<b>55.6872</b>	<b>132.6625</b>	<b>170.0351</b>	<b>1.0876</b>	<b>79.3244</b>	<b>1.4796</b>	<b>80.8040</b>	<b>21.4384</b>	<b>1.4212</b>	<b>22.8596</b>		<b>118,473.7276</b>	<b>118,473.7276</b>	<b>5.3546</b>	<b>0.0984</b>	<b>118,636.9020</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	9.7228	127.5912	164.7069	1.0537	78.6862	1.1319	79.8181	21.2672	1.0739	22.3411		112,362.5368	112,362.5368	5.2238		112,493.1313
<b>Total</b>	<b>55.6175</b>	<b>131.6250</b>	<b>168.4566</b>	<b>1.0779</b>	<b>78.6862</b>	<b>1.4396</b>	<b>80.1257</b>	<b>21.2672</b>	<b>1.3815</b>	<b>22.6487</b>		<b>117,199.9370</b>	<b>117,199.9370</b>	<b>5.3185</b>	<b>0.0887</b>	<b>117,359.3241</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.13	0.78	0.93	0.89	0.80	2.71	0.84	0.80	2.79	0.92	0.00	1.08	1.08	0.67	9.85	1.08

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

#### OffRoad Equipment



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		182.6910	182.6910	4.5000e-003		182.8036
<b>Total</b>	<b>0.0799</b>	<b>0.0458</b>	<b>0.6286</b>	<b>1.8300e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>182.6910</b>	<b>182.6910</b>	<b>4.5000e-003</b>		<b>182.8036</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>7.0458</b>	<b>1.2660</b>	<b>8.3119</b>	<b>3.8730</b>	<b>1.1647</b>	<b>5.0377</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		182.6910	182.6910	4.5000e-003		182.8036
<b>Total</b>	<b>0.0799</b>	<b>0.0458</b>	<b>0.6286</b>	<b>1.8300e-003</b>	<b>0.1855</b>	<b>1.2200e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1200e-003</b>	<b>0.0506</b>		<b>182.6910</b>	<b>182.6910</b>	<b>4.5000e-003</b>		<b>182.8036</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
<b>Total</b>	<b>0.0888</b>	<b>0.0509</b>	<b>0.6984</b>	<b>2.0400e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>202.9900</b>	<b>202.9900</b>	<b>5.0000e-003</b>		<b>203.1151</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.3354</b>	<b>10.0087</b>	<b>3.5965</b>	<b>1.2286</b>	<b>4.8251</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		196.4072	196.4072	4.5600e-003		196.5213
<b>Total</b>	<b>0.0835</b>	<b>0.0461</b>	<b>0.6513</b>	<b>1.9700e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>196.4072</b>	<b>196.4072</b>	<b>4.5600e-003</b>		<b>196.5213</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.3354</b>	<b>4.7180</b>	<b>1.4026</b>	<b>1.2286</b>	<b>2.6312</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		196.4072	196.4072	4.5600e-003		196.5213
<b>Total</b>	<b>0.0835</b>	<b>0.0461</b>	<b>0.6513</b>	<b>1.9700e-003</b>	<b>0.2061</b>	<b>1.3400e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2300e-003</b>	<b>0.0562</b>		<b>196.4072</b>	<b>196.4072</b>	<b>4.5600e-003</b>		<b>196.5213</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	4.2013	0.0447	4.2460	1.2097	0.0427	1.2524		17,982.20 47	17,982.20 47	0.9166		18,005.11 94
Worker	7.0167	3.8713	54.7088	0.1656	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		16,498.20 17	16,498.20 17	0.3835		16,507.78 80
<b>Total</b>	<b>8.1941</b>	<b>50.5450</b>	<b>63.9337</b>	<b>0.3358</b>	<b>22.9798</b>	<b>0.1571</b>	<b>23.1369</b>	<b>6.1898</b>	<b>0.1462</b>	<b>6.3360</b>		<b>34,480.40 63</b>	<b>34,480.40 63</b>	<b>1.3001</b>		<b>34,512.90 74</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	3.9320	0.0447	3.9767	1.1436	0.0427	1.1863		17,982.20 47	17,982.20 47	0.9166		18,005.11 94
Worker	7.0167	3.8713	54.7088	0.1656	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		16,498.20 17	16,498.20 17	0.3835		16,507.78 80
<b>Total</b>	<b>8.1941</b>	<b>50.5450</b>	<b>63.9337</b>	<b>0.3358</b>	<b>21.2412</b>	<b>0.1571</b>	<b>21.3983</b>	<b>5.7631</b>	<b>0.1462</b>	<b>5.9093</b>		<b>34,480.40 63</b>	<b>34,480.40 63</b>	<b>1.3001</b>		<b>34,512.90 74</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		147.3054	147.3054	3.4200e-003		147.3910
<b>Total</b>	<b>0.0627</b>	<b>0.0346</b>	<b>0.4885</b>	<b>1.4800e-003</b>	<b>0.1677</b>	<b>1.0000e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.2000e-004</b>	<b>0.0454</b>		<b>147.3054</b>	<b>147.3054</b>	<b>3.4200e-003</b>		<b>147.3910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		147.3054	147.3054	3.4200e-003		147.3910
<b>Total</b>	<b>0.0627</b>	<b>0.0346</b>	<b>0.4885</b>	<b>1.4800e-003</b>	<b>0.1546</b>	<b>1.0000e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.2000e-004</b>	<b>0.0422</b>		<b>147.3054</b>	<b>147.3054</b>	<b>3.4200e-003</b>		<b>147.3910</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>23.6591</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		3,299.640 3	3,299.640 3	0.0767		3,301.557 6
<b>Total</b>	<b>1.4034</b>	<b>0.7743</b>	<b>10.9418</b>	<b>0.0331</b>	<b>3.7557</b>	<b>0.0225</b>	<b>3.7782</b>	<b>0.9960</b>	<b>0.0207</b>	<b>1.0167</b>		<b>3,299.640 3</b>	<b>3,299.640 3</b>	<b>0.0767</b>		<b>3,301.557 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>23.6591</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		3,299.640 3	3,299.640 3	0.0767		3,301.557 6
<b>Total</b>	<b>1.4034</b>	<b>0.7743</b>	<b>10.9418</b>	<b>0.0331</b>	<b>3.4618</b>	<b>0.0225</b>	<b>3.4843</b>	<b>0.9239</b>	<b>0.0207</b>	<b>0.9446</b>		<b>3,299.640 3</b>	<b>3,299.640 3</b>	<b>0.0767</b>		<b>3,301.557 6</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.7228	127.5912	164.7069	1.0537	78.6862	1.1319	79.8181	21.2672	1.0739	22.3411		112,362.5368	112,362.5368	5.2238		112,493.1313
Unmitigated	9.7440	128.1884	165.9157	1.0608	79.3244	1.1385	80.4629	21.4384	1.0801	22.5185		113,108.0287	113,108.0287	5.2497		113,239.2710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>36,257,668</b>	<b>35,960,657</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
<b>Total</b>		<b>0.4918</b>	<b>4.4708</b>	<b>3.7555</b>	<b>0.0268</b>		<b>0.3398</b>	<b>0.3398</b>		<b>0.3398</b>	<b>0.3398</b>		<b>5,364.9174</b>	<b>5,364.9174</b>	<b>0.1028</b>	<b>0.0984</b>	<b>5,396.7984</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144		
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537		
<b>Total</b>		<b>0.4434</b>	<b>4.0305</b>	<b>3.3856</b>	<b>0.0242</b>		<b>0.3063</b>	<b>0.3063</b>		<b>0.3063</b>	<b>0.3063</b>		<b>4,836.6187</b>	<b>4,836.6187</b>	<b>0.0927</b>	<b>0.0887</b>	<b>4,865.3603</b>		

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>45.4514</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>45.4514</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**South Ontario Logistics Center Phase 2 - With Mitigation**  
**San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use  $4178/474.107 \text{ ksf} = 8.8123567042882724785755114351824$ , truck trip rate shown under unrefrigerated w/h  $1036/1536.163 \text{ ksf} = 0.67440759867279709249604371411107$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

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tblAreaCoating	Area_EF_Parking	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12



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tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

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tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006

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tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13

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tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006

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tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20

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tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16

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tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003



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tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

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tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30

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tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25

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tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004



## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77



## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01



## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

## South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

**2.0 Emissions Summary**

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South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	9.2065	134.2214	145.7571	1.0227	79.3244	1.1397	80.4641	21.4384	1.0812	22.5196		109,248.7861	109,248.7861	5.2513		109,380.0689
<b>Total</b>	<b>55.1497</b>	<b>138.6954</b>	<b>149.8766</b>	<b>1.0496</b>	<b>79.3244</b>	<b>1.4808</b>	<b>80.8052</b>	<b>21.4384</b>	<b>1.4223</b>	<b>22.8607</b>		<b>114,614.4850</b>	<b>114,614.4850</b>	<b>5.3562</b>	<b>0.0984</b>	<b>114,777.6999</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	9.1867	133.5972	144.7677	1.0160	78.6862	1.1331	79.8193	21.2672	1.0750	22.3422		108,539.9161	108,539.9161	5.2259		108,670.5625
<b>Total</b>	<b>55.0815</b>	<b>137.6311</b>	<b>148.5174</b>	<b>1.0402</b>	<b>78.6862</b>	<b>1.4407</b>	<b>80.1269</b>	<b>21.2672</b>	<b>1.3826</b>	<b>22.6498</b>		<b>113,377.3163</b>	<b>113,377.3163</b>	<b>5.3206</b>	<b>0.0887</b>	<b>113,536.7553</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.12	0.77	0.91	0.89	0.80	2.71	0.84	0.80	2.79	0.92	0.00	1.08	1.08	0.66	9.85	1.08

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

#### OffRoad Equipment

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>18.0663</b>	<b>1.2660</b>	<b>19.3323</b>	<b>9.9307</b>	<b>1.1647</b>	<b>11.0954</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		163.9140	163.9140	3.9600e-003		164.0129
<b>Total</b>	<b>0.0805</b>	<b>0.0481</b>	<b>0.5139</b>	<b>1.6400e-003</b>	<b>0.2012</b>	<b>1.2200e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.1200e-003</b>	<b>0.0545</b>		<b>163.9140</b>	<b>163.9140</b>	<b>3.9600e-003</b>		<b>164.0129</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>7.0458</b>	<b>1.2660</b>	<b>8.3119</b>	<b>3.8730</b>	<b>1.1647</b>	<b>5.0377</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		163.9140	163.9140	3.9600e-003		164.0129
<b>Total</b>	<b>0.0805</b>	<b>0.0481</b>	<b>0.5139</b>	<b>1.6400e-003</b>	<b>0.1855</b>	<b>1.2200e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1200e-003</b>	<b>0.0506</b>		<b>163.9140</b>	<b>163.9140</b>	<b>3.9600e-003</b>		<b>164.0129</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.4245</b>	<b>10.0978</b>	<b>3.5965</b>	<b>1.3105</b>	<b>4.9070</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2236</b>	<b>1.3500e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2400e-003</b>	<b>0.0605</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.4245</b>	<b>4.8071</b>	<b>1.4026</b>	<b>1.3105</b>	<b>2.7132</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
<b>Total</b>	<b>0.0895</b>	<b>0.0534</b>	<b>0.5710</b>	<b>1.8300e-003</b>	<b>0.2061</b>	<b>1.3500e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2400e-003</b>	<b>0.0562</b>		<b>182.1267</b>	<b>182.1267</b>	<b>4.4000e-003</b>		<b>182.2366</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.3354</b>	<b>10.0087</b>	<b>3.5965</b>	<b>1.2286</b>	<b>4.8251</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		176.2225	176.2225	4.0100e-003		176.3229
<b>Total</b>	<b>0.0844</b>	<b>0.0484</b>	<b>0.5315</b>	<b>1.7700e-003</b>	<b>0.2236</b>	<b>1.3400e-003</b>	<b>0.2249</b>	<b>0.0593</b>	<b>1.2300e-003</b>	<b>0.0605</b>		<b>176.2225</b>	<b>176.2225</b>	<b>4.0100e-003</b>		<b>176.3229</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.3826</b>	<b>1.3354</b>	<b>4.7180</b>	<b>1.4026</b>	<b>1.2286</b>	<b>2.6312</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		176.2225	176.2225	4.0100e-003		176.3229
<b>Total</b>	<b>0.0844</b>	<b>0.0484</b>	<b>0.5315</b>	<b>1.7700e-003</b>	<b>0.2061</b>	<b>1.3400e-003</b>	<b>0.2074</b>	<b>0.0550</b>	<b>1.2300e-003</b>	<b>0.0562</b>		<b>176.2225</b>	<b>176.2225</b>	<b>4.0100e-003</b>		<b>176.3229</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	4.2013	0.0462	4.2475	1.2097	0.0441	1.2538		17,296.46 10	17,296.46 10	1.0129		17,321.78 38
Worker	7.0909	4.0651	44.6494	0.1485	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		14,802.68 97	14,802.68 97	0.3372		14,811.11 99
<b>Total</b>	<b>8.3391</b>	<b>50.1284</b>	<b>55.2488</b>	<b>0.3123</b>	<b>22.9798</b>	<b>0.1586</b>	<b>23.1383</b>	<b>6.1898</b>	<b>0.1476</b>	<b>6.3374</b>		<b>32,099.15 07</b>	<b>32,099.15 07</b>	<b>1.3501</b>		<b>32,132.90 37</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	3.9320	0.0462	3.9782	1.1436	0.0441	1.1877		17,296.46 10	17,296.46 10	1.0129		17,321.78 38
Worker	7.0909	4.0651	44.6494	0.1485	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		14,802.68 97	14,802.68 97	0.3372		14,811.11 99
<b>Total</b>	<b>8.3391</b>	<b>50.1284</b>	<b>55.2488</b>	<b>0.3123</b>	<b>21.2412</b>	<b>0.1586</b>	<b>21.3997</b>	<b>5.7631</b>	<b>0.1476</b>	<b>5.9107</b>		<b>32,099.15 07</b>	<b>32,099.15 07</b>	<b>1.3501</b>		<b>32,132.90 37</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		132.1669	132.1669	3.0100e-003		132.2421
<b>Total</b>	<b>0.0633</b>	<b>0.0363</b>	<b>0.3987</b>	<b>1.3300e-003</b>	<b>0.1677</b>	<b>1.0000e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.2000e-004</b>	<b>0.0454</b>		<b>132.1669</b>	<b>132.1669</b>	<b>3.0100e-003</b>		<b>132.2421</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8711</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		132.1669	132.1669	3.0100e-003		132.2421
<b>Total</b>	<b>0.0633</b>	<b>0.0363</b>	<b>0.3987</b>	<b>1.3300e-003</b>	<b>0.1546</b>	<b>1.0000e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.2000e-004</b>	<b>0.0422</b>		<b>132.1669</b>	<b>132.1669</b>	<b>3.0100e-003</b>		<b>132.2421</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>23.6591</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		2,960.5380	2,960.5380	0.0674		2,962.2240
<b>Total</b>	<b>1.4182</b>	<b>0.8130</b>	<b>8.9299</b>	<b>0.0297</b>	<b>3.7557</b>	<b>0.0225</b>	<b>3.7782</b>	<b>0.9960</b>	<b>0.0207</b>	<b>1.0167</b>		<b>2,960.5380</b>	<b>2,960.5380</b>	<b>0.0674</b>		<b>2,962.2240</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>23.6591</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		2,960.538 0	2,960.538 0	0.0674		2,962.224 0
<b>Total</b>	<b>1.4182</b>	<b>0.8130</b>	<b>8.9299</b>	<b>0.0297</b>	<b>3.4618</b>	<b>0.0225</b>	<b>3.4843</b>	<b>0.9239</b>	<b>0.0207</b>	<b>0.9446</b>		<b>2,960.538 0</b>	<b>2,960.538 0</b>	<b>0.0674</b>		<b>2,962.224 0</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.1867	133.5972	144.7677	1.0160	78.6862	1.1331	79.8193	21.2672	1.0750	22.3422		108,539.9161	108,539.9161	5.2259		108,670.5625
Unmitigated	9.2065	134.2214	145.7571	1.0227	79.3244	1.1397	80.4641	21.4384	1.0812	22.5196		109,248.7861	109,248.7861	5.2513		109,380.0689

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>36,257,668</b>	<b>35,960,657</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
<b>Total</b>		<b>0.4918</b>	<b>4.4708</b>	<b>3.7555</b>	<b>0.0268</b>		<b>0.3398</b>	<b>0.3398</b>		<b>0.3398</b>	<b>0.3398</b>		<b>5,364.9174</b>	<b>5,364.9174</b>	<b>0.1028</b>	<b>0.0984</b>	<b>5,396.7984</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Land Use	kBTU/yr	lb/day										lb/day							
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922		
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144		
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537		
<b>Total</b>		<b>0.4434</b>	<b>4.0305</b>	<b>3.3856</b>	<b>0.0242</b>		<b>0.3063</b>	<b>0.3063</b>		<b>0.3063</b>	<b>0.3063</b>		<b>4,836.6187</b>	<b>4,836.6187</b>	<b>0.0927</b>	<b>0.0887</b>	<b>4,865.3603</b>		

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>45.4514</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
<b>Total</b>	<b>45.4514</b>	<b>3.3100e-003</b>	<b>0.3640</b>	<b>3.0000e-005</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>0.7815</b>	<b>0.7815</b>	<b>2.0400e-003</b>		<b>0.8326</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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OFFROAD2017 (v1.0.1) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2023

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2017 Equipment Types

Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	PM_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activ	Total_PopL	Horsepower_Hours_hhpy	
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.001492	0.001805	0.002148	0.028103	0.02068	0.56666	9.35E-05	8.60E-05	9.35E-05	5.23E-06	4.66E-06	359.695	216690.9	277.5524	6825763	
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.02966	0.035889	0.042711	0.43592	0.274817	6.459808	0.003907	0.003594	0.003907	5.92E-05	5.31E-05	4100.452	1641821	1239.219	55821905	
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.003729	0.004512	0.00537	0.036565	0.043788	0.877601	0.00176	0.001619	0.00176	8.06E-06	7.21E-06	557.0693	441807.2	324.6196	6229482	
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	8.63E-05	0.000104	0.000124	0.000847	0.001014	0.020317	4.07E-05	3.75E-05	4.07E-05	1.87E-07	1.67E-07	12.89654	16024.1	11.77377	144216.9	
																			1853.165		

g/hph

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
0.072357	0.087552	0.104194	1.363321	1.003215	27.48951	0.004537	0.004174	0.004537	0.000254	0.000226	5.27E-05
0.175941	0.212889	0.253355	2.58582	1.630175	38.31871	0.023175	0.021321	0.023175	0.000351	0.000315	7.35E-05
0.198211	0.239835	0.285424	1.943617	2.327547	46.64886	0.093539	0.086056	0.093539	0.000428	0.000383	8.94E-05
0.198211	0.239835	0.285424	1.943617	2.327547	46.64886	0.093539	0.086056	0.093539	0.000428	0.000383	8.94E-05

Weighting

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
20.08284	24.30023	28.91928	378.3928	278.4448	7629.778	1.259207	1.158471	1.259207	0.070412	0.062691	0.014626
48.83284	59.08774	70.31929	717.7005	452.4589	10635.45	6.432297	5.917713	6.432297	0.097525	0.087387	0.020388
55.01388	66.56679	79.21998	539.4554	646.0163	12947.5	25.96202	23.88506	25.96202	0.118859	0.106385	0.02482
55.01388	66.56679	79.21998	539.4554	646.0163	12947.5	25.96202	23.88506	25.96202	0.118859	0.106385	0.02482
178.9434	216.5216	257.6785	2175.004	2022.936	44160.23	59.61554	54.8463	59.61554	0.405653	0.362847	0.084654
0.096561	0.116839	0.139048	1.17367	1.091611	23.82963	0.03217	0.029596	0.03217	0.000219	0.000196	4.57E-05

Truck Trips 125  
 TRU HP 50  
 Idling Time 1.1 hours  
 1 pound = 453.5924 grams

Source	ROG	NOX	CO	SO2	PM10	PM2.5	lbs/day	MT/yr
Transport F	1.77	16.55	17.79	0	0.49	0.45	361.18	59.79747

Based on aggregated Instate Trailer TRU emission rates obtained from OFFROAD2017 Version 1.0.1.

Based on 125 trucks with TRUs per day.

OFFROAD2017 (v1.0.1) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2024

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2017 Equipment Types

Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	PM_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activ	Total_PopL	Horsepower_Hours_hhpy	
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.001558	0.001886	0.002244	0.029271	0.02149	0.588319	9.74E-05	8.96E-05	9.74E-05	5.43E-06	4.83E-06	373.4438	224973.6	288.1614	7086667	
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.031579	0.03821	0.045474	0.459149	0.280891	6.598153	0.003575	0.003289	0.003575	6.05E-05	5.42E-05	4188.268	1676982	1265.759	57017401	
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.003805	0.004603	0.005479	0.037344	0.044676	0.896396	0.001781	0.001639	0.001781	8.23E-06	7.37E-06	568.9996	451269.1	331.5717	6362894	
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	8.81E-05	0.000107	0.000127	0.000865	0.001034	0.020752	4.12E-05	3.79E-05	4.12E-05	1.91E-07	1.71E-07	13.17274	16367.27	12.02592	147305.5	
																			1897.518		

g/hph

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
0.072812	0.088103	0.10485	1.367684	1.004114	27.48951	0.004553	0.004189	0.004553	0.000254	0.000226	5.27E-05
0.183394	0.221907	0.264088	2.666505	1.631274	38.31871	0.020764	0.019103	0.020764	0.000351	0.000315	7.35E-05
0.19799	0.239568	0.285106	1.943376	2.32494	46.64886	0.092701	0.085285	0.092701	0.000428	0.000383	8.94E-05
0.19799	0.239568	0.285106	1.943376	2.32494	46.64886	0.092701	0.085285	0.092701	0.000428	0.000383	8.94E-05

Weighting

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
20.98168	25.38783	30.21361	394.1137	289.347	7921.415	1.311992	1.207033	1.311992	0.073099	0.065087	0.015185
52.84714	63.94504	76.09988	768.3837	470.0702	11041.97	5.983478	5.5048	5.983478	0.101188	0.090728	0.021167
57.05309	69.03424	82.15645	560.006	669.9581	13442.4	26.71279	24.57577	26.71279	0.123404	0.110451	0.025769
57.05309	69.03424	82.15645	560.006	669.9581	13442.4	26.71279	24.57577	26.71279	0.123404	0.110451	0.025769
187.935	227.4013	270.6264	2282.51	2099.333	45848.19	60.72105	55.86337	60.72105	0.421094	0.376717	0.08789
0.099043	0.119841	0.142621	1.202892	1.106358	24.16219	0.032	0.02944	0.032	0.000222	0.000199	4.63E-05

Truck Trips 86  
 TRU HP 50  
 Idling Time 1.1 hours  
 1 pound = 453.5924 grams

Source	ROG	NOX	CO	SO2	PM10	PM2.5	lbs/day	MT/yr
Transport F	1.82	16.77	18.23	0	0.49	0.45	366.22	60.632

Based on aggregated Instate Trailer TRU emission rates obtained from OFFROAD2017 Version 1.0.1.

Based on 86 trucks with TRUs per day.

## **APPENDIX B2**

### **HEALTH RISK ASSESSMENT**

EMFAC2017 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Idle (g/trip) 5 mph (g/mi) 15 mph (g/mi) 45 mph (g/mi) 50 mph (g/mi) 55 mph (g/mi)  
 0.001514147 0.013942993 0.008589017 0.010325345 0.002575214 0.004748194

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	GAS	5.400593394	502.1025429	108.0550726	0 0
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	DSL	15095.86478	1827708.596	154641.5157	0.027596734 416.5965673
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	NG	1175.154539	47935.21538	4583.102704	0.039919542 46.9116311
San Bernardino (SC)	2023	LHDT2	Aggregated	Aggregated	GAS	2533.759331	82907.19879	37749.23873	0 0
San Bernardino (SC)	2023	LHDT2	Aggregated	Aggregated	DSL	4571.554127	162996.0189	57504.3999	0.027683965 126.5587463
San Bernardino (SC)	2023	MHDT	Aggregated	Aggregated	GAS	1442.204503	79321.31417	28855.62769	0 0
San Bernardino (SC)	2023	MHDT	Aggregated	Aggregated	DSL	14412.4861	995079.2792	145435.5471	0.004115649 59.31673082

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX
SAN BERNARDINO	2023	HHDT	Aggregated	5	GAS	0.311920254	0.009842005 0.003069921
SAN BERNARDINO	2023	HHDT	Aggregated	5	DSL	9217.789421	0.014920313 137.5323052
SAN BERNARDINO	2023	HHDT	Aggregated	5	NG	2553.828989	0.010993844 28.0763977
SAN BERNARDINO	2023	LHDT2	Aggregated	5	GAS	52.72871763	0.006871497 0.362325249
SAN BERNARDINO	2023	LHDT2	Aggregated	5	DSL	60.22469404	0.061423572 3.699215853
SAN BERNARDINO	2023	MHDT	Aggregated	5	GAS	49.27663643	0.007094553 0.349595685
SAN BERNARDINO	2023	MHDT	Aggregated	5	DSL	448.8424723	0.005866681 2.633215741

SAN BERNARDINO	2023	HHDT	Aggregated	15	GAS	10.28290061	0.004297672 0.04419253
SAN BERNARDINO	2023	HHDT	Aggregated	15	DSL	34193.35273	0.009360193 320.0563886
SAN BERNARDINO	2023	HHDT	Aggregated	15	NG	2804.95855	0.00743257 20.84805125
SAN BERNARDINO	2023	LHDT2	Aggregated	15	GAS	1971.803644	0.00288685 5.692302251
SAN BERNARDINO	2023	LHDT2	Aggregated	15	DSL	2283.32541	0.036789147 84.00159367
SAN BERNARDINO	2023	MHDT	Aggregated	15	GAS	1624.475321	0.002974516 4.832027597
SAN BERNARDINO	2023	MHDT	Aggregated	15	DSL	14416.73905	0.003934215 56.71855032

SAN BERNARDINO	2023	HHDT	Aggregated	45	GAS	59.75575132	0.00126284 0.075461954
SAN BERNARDINO	2023	HHDT	Aggregated	45	DSL	168581.2517	0.014178459 2390.222442
SAN BERNARDINO	2023	HHDT	Aggregated	45	NG	6068.415622	0.004256423 25.82974556
SAN BERNARDINO	2023	LHDT2	Aggregated	45	GAS	8844.07871	0.000771434 6.82262644
SAN BERNARDINO	2023	LHDT2	Aggregated	45	DSL	13103.08805	0.015905084 208.4057131
SAN BERNARDINO	2023	MHDT	Aggregated	45	GAS	9440.112963	0.000790615 7.463490797
SAN BERNARDINO	2023	MHDT	Aggregated	45	DSL	113825.002	0.005837756 664.4826452

SAN BERNARDINO	2023	HHDT	Aggregated	50	GAS	48.6268821	9.30524E-08 4.52485E-06
SAN BERNARDINO	2023	HHDT	Aggregated	50	DSL	166768.7589	0.003127398 521.5522872
SAN BERNARDINO	2023	HHDT	Aggregated	50	NG	10225.22813	5.25651E-05 0.537490164
SAN BERNARDINO	2023	LHDT2	Aggregated	50	GAS	8112.609325	8.83477E-06 0.071673
SAN BERNARDINO	2023	LHDT2	Aggregated	50	DSL	12438.59783	0.000263682 3.279830733
SAN BERNARDINO	2023	MHDT	Aggregated	50	GAS	8184.157702	9.04855E-06 0.074054765
SAN BERNARDINO	2023	MHDT	Aggregated	50	DSL	84478.42557	0.002627381 221.9569841

SAN BERNARDINO	2023	HHDT	Aggregated	55	GAS	71.31347966	1.15547E-07 8.24009E-06
SAN BERNARDINO	2023	HHDT	Aggregated	55	DSL	254698.0224	0.00581459 1480.964641
SAN BERNARDINO	2023	HHDT	Aggregated	55	NG	6003.570037	2.96199E-05 0.177825356
SAN BERNARDINO	2023	LHDT2	Aggregated	55	GAS	11282.09876	9.91287E-06 0.111837984
SAN BERNARDINO	2023	LHDT2	Aggregated	55	DSL	18362.09367	0.00034256 6.290120291
SAN BERNARDINO	2023	MHDT	Aggregated	55	GAS	12331.04898	1.09078E-05 0.134504971
SAN BERNARDINO	2023	MHDT	Aggregated	55	DSL	120594.7079	0.004332157 522.4351795

**Construction**

Year	PM10 Exhaust Onsite		Weighted Average On-Site Rate	
	Tons/Year	g/s	Site Rate	
2022	1.17E-01	0.003357	3.94E-03	
2023	1.85E-01	0.005327		
2024	6.45E-02	0.001855		

Year	PM10 Exhaust Off-Site		Weighted Average Off-Site Rate	
	Tons/Year	g/s	g/s per mile	Site Rate
2022	5.50E-04	0.000016	2.29299E-06	1.19E-05
2023	5.00E-05	0.000001	2.08454E-07	
2024	1.12E-02	0.000321	4.65269E-05	

**Construction Route**  
 Euclid Ave - Red Bud Lane to Merrill Ave  
 Euclid Ave - Merrill Ave to SR-71  
 Merrill Ave - Euclid Ave to Bon View Ave  
 Merrill Ave - Archibald Ave to Grove Ave

Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)
2,220.5	1.38	1.19E-05	1.65E-05
953.3	0.59	1.19E-05	7.07E-06
1,291.7	0.80	1.19E-05	9.57E-06
1,887.6	1.17	1.19E-05	1.40E-05

**On-Site Construction Emissions**

Year	Project Phase	Construction Phase	tons/yr Exhaust PM10	
			Year	tons/yr
2022	1	Demo	2022	2.49E-02
2022	1	Site Prep	2022	0.0403
2022	1	Grading	2022	0.0515
		<b>Total</b>		<b>1.17E-01</b>
2023	1	Grading	2023	1.21E-02
2023	1	Construct	2023	0.0395
2023	1	Paving	2023	0.023
2023	1	A Coating	2023	3.19E-03
2023	1	Construct	2023	0.0201
2023	2	Site Prep	2023	3.17E-02
2023	2	Grading	2023	0.0556
		<b>Total</b>		<b>1.85E-01</b>
2024	2	Grading	2024	1.34E-03
2024	2	Construct	2024	3.93E-02
2024	2	Paving	2024	2.11E-02
2024	2	A Coating	2024	2.74E-03
		<b>Total</b>		<b>6.45E-02</b>

**Off-Site Construction Emissions**

Year	Phase	Construction Phase	tons/yr Exhaust PM10	
			Year	tons/yr
2022	1	Demo	2022	4.80E-04
2022	1	Site Prep	2022	3.00E-05
2022	1	Grading	2022	4.00E-05
		<b>Total</b>		<b>5.50E-04</b>
2023	1	Grading	2023	1.00E-05
2023	1	Construct	2023	1.28E-02
2023	1	Paving	2023	5.00E-05
2023	1	A Coating	2023	1.45E-03
2023	1	Construct	2023	1.86E-03
2023	2	Site Prep	2023	3.00E-05
2023	2	Grading	2023	5.00E-05
		<b>Total</b>		<b>1.63E-02</b>
2024	2	Grading	2024	0.00E+00
2024	2	Construct	2024	1.01E-02
2024	2	Paving	2024	5.00E-05
2024	2	A Coating	2024	1.01E-03
		<b>Total</b>		<b>1.12E-02</b>

Refrigeration Unit Emissions	Speed (mph)	Size (hp)	Load Factor	On/Off Cycle Factor	Emissions Factor (g/bhp-hr)	Daily Trucks with TRU (veh/day)	Cooling Time (hr/veh)	Emissions (g/day)	Emissions (g/sec)
Euclid Ave - Red Bud Lane to Merrill Ave	55	34	0.53	0.5	0.02	70	3.64E-04	4.58E-03	5.30E-08
Euclid Ave - Merrill Ave to SR-71	55	34	0.53	0.5	0.02	47	3.64E-04	3.05E-03	3.53E-08
Merrill Ave - Euclid Ave to Bon View Ave	50	34	0.53	0.5	0.02	116	4.00E-04	8.39E-03	9.72E-08
Merrill Ave - Archibald Ave to Grove Ave	50	34	0.53	0.5	0.02	116	4.00E-04	8.39E-03	9.72E-08
Merrill Ave - Campus Ave to PA 4 Driveway	50	34	0.53	0.5	0.02	92	4.00E-04	6.60E-03	7.63E-08
Merrill Ave - PA 4 Driveway to Bon View Ave	50	34	0.53	0.5	0.02	77	4.00E-04	5.58E-03	6.46E-08
Merrill Ave - Bon View Ave to Driveway 7	50	34	0.53	0.5	0.02	74	4.00E-04	5.31E-03	6.15E-08
Merrill Ave - Driveway 7 to PA 5 Driveway	50	34	0.53	0.5	0.02	57	4.00E-04	4.14E-03	4.79E-08
Merrill Ave - PA 5 Driveway to Grove Ave	50	34	0.53	0.5	0.02	39	4.00E-04	2.78E-03	3.22E-08
Bon View Ave - Merrill Ave to PA 4 Driveway	45	34	0.53	0.5	0.02	51	4.44E-04	4.06E-03	4.70E-08
Bon View Ave - PA 4 Driveway to Driveway 1	45	34	0.53	0.5	0.02	37	4.44E-04	2.93E-03	3.39E-08
Bon View Ave - Driveway 1 to Eucalyptus Ave	45	34	0.53	0.5	0.02	23	4.44E-04	1.86E-03	2.15E-08
Campus Ave - Merrill Ave to PA 4 Driveway	45	34	0.53	0.5	0.02	24	4.44E-04	1.88E-03	2.18E-08
Campus Ave - PA 4 Driveway to PA 3 Driveway	45	34	0.53	0.5	0.02	9	4.44E-04	7.53E-04	8.71E-09
Campus Ave - PA 3 Driveway to Eucalyptus Ave	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - Bon View Ave to Driveway #4	45	34	0.53	0.5	0.02	20	4.44E-04	1.63E-03	1.89E-08
Eucalyptus Ave - Driveway #4 to Driveway #6	45	34	0.53	0.5	0.02	22	4.44E-04	1.74E-03	2.02E-08
Eucalyptus Ave - Driveway #6 to Driveway #8	45	34	0.53	0.5	0.02	15	4.44E-04	1.20E-03	1.39E-08
Eucalyptus Ave - Driveway #8 to Driveway #9	45	34	0.53	0.5	0.02	8	4.44E-04	6.54E-04	7.56E-09
Grove Ave - Merrill Ave to Driveway #11	50	34	0.53	0.5	0.02	71	4.00E-04	5.10E-03	5.90E-08
Grove Ave - Driveway #11 to Driveway #9	50	34	0.53	0.5	0.02	14	4.00E-04	9.80E-04	1.13E-08
Driveway #1	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #4	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #6	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #7	15	34	0.53	0.5	0.02	38	1.33E-03	9.15E-03	1.06E-07
Driveway #8	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #9	15	34	0.53	0.5	0.02	14	1.33E-03	3.27E-03	3.78E-08
Driveway #11	15	34	0.53	0.5	0.02	57	1.33E-03	1.37E-02	1.59E-07
PA 3 Driveway - Campus Ave	15	34	0.53	0.5	0.02	7	1.33E-03	1.58E-03	1.83E-08
PA 3 Driveway - Eucalyptus Ave	15	34	0.53	0.5	0.02	6	1.33E-03	1.36E-03	1.57E-08
PA 3 Driveway - Bon View Ave	15	34	0.53	0.5	0.02	7	1.33E-03	1.58E-03	1.83E-08
PA 4 Driveway - Merrill Ave	15	34	0.53	0.5	0.02	33	1.33E-03	7.90E-03	9.15E-08
PA 4 Driveway - Campus Ave	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
PA 4 Driveway - Bon View Ave	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
PA 5 Driveway	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
On-site Circulation - Bldgs 4-8 and Bldg 2	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - Bldg 1 WEST	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - Bldg 1 EAST	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - Driveway 11	15	34	0.53	0.5	0.02	136	1.33E-03	3.27E-02	3.78E-07
On-site Circulation - PA 3	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - PA 4 Loading Area 1	15	34	0.53	0.5	0.02	36	1.33E-03	8.65E-03	1.00E-07
On-site Circulation - PA 4 Loading Area 2	15	34	0.53	0.5	0.02	36	1.33E-03	8.65E-03	1.00E-07
On-site Circulation - PA 5	15	34	0.53	0.5	0.02	22	1.33E-03	5.29E-03	6.12E-08
Idle - Building 1 Loading Docks - East	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 1 Loading Docks - West	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 2 Loading Docks - North	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 2 Loading Docks - South	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 3 Loading Docks	0	34	0.53	0.5	0.02	136	2.50E-01	6.13E+00	7.09E-05
Idle - Building 4 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 5 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 6 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 7 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 8 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - PA 3 - Loading Area	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - PA 4 - Loading Area 1	0	34	0.53	0.5	0.02	36	2.50E-01	1.62E+00	1.88E-05
Idle - PA 4 - Loading Area 2	0	34	0.53	0.5	0.02	36	2.50E-01	1.62E+00	1.88E-05
Idle - PA 5 - Loading Area	0	34	0.53	0.5	0.02	22	2.50E-01	9.91E-01	1.15E-05

Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emissions Rate (g/sec)	TRU Emissions Rate (g/sec)	Total Emissions Rate (g/sec)
Euclid Ave - Red Bud Lane to Merrill Ave	55	440	0.00475	2220.5	1.38	2.88E+00	3.33E-05	5.30E-08	3.34E-05
Euclid Ave - Merrill Ave to SR-71	55	293	0.00475	1597.6	0.99	1.38E+00	1.60E-05	3.53E-08	1.60E-05
Merrill Ave - Euclid Ave to Bon View Ave	50	733	0.00258	877.8	0.55	1.03E+00	1.19E-05	9.72E-08	1.20E-05
Merrill Ave - Archibald Ave to Grove Ave	50	733	0.00258	3208.8	1.99	3.76E+00	4.36E-05	9.72E-08	4.37E-05
Merrill Ave - Campus Ave to PA 4 Driveway	50	581	0.00258	214.2	0.13	1.99E-01	2.30E-06	7.63E-08	2.38E-06
Merrill Ave - PA 4 Driveway to Bon View Ave	50	489	0.00258	198	0.12	1.55E-01	1.79E-06	6.46E-08	1.86E-06
Merrill Ave - Bon View Ave to Driveway 7	50	470	0.00258	362.5	0.23	2.73E-01	3.16E-06	6.15E-08	3.22E-06
Merrill Ave - Driveway 7 to PA 5 Driveway	50	368	0.00258	197.5	0.12	1.16E-01	1.34E-06	4.79E-08	1.39E-06
Merrill Ave - PA 5 Driveway to Grove Ave	50	246	0.00258	248.2	0.15	9.75E-02	1.13E-06	3.22E-08	1.16E-06
Bon View Ave - Merrill Ave to PA 4 Driveway	45	324	0.01033	403.6	0.25	8.38E-01	9.70E-06	4.70E-08	9.75E-06
Bon View Ave - PA 4 Driveway to Driveway 1	45	232	0.01033	269.2	0.17	4.01E-01	4.64E-06	3.39E-08	4.68E-06
Bon View Ave - Driveway 1 to Eucalyptus Ave	45	147	0.01033	127.2	0.08	1.20E-01	1.39E-06	2.15E-08	1.41E-06
Campus Ave - Merrill Ave to PA 4 Driveway	45	153	0.01033	375.5	0.23	3.67E-01	4.25E-06	2.18E-08	4.27E-06
Campus Ave - PA 4 Driveway to PA 3 Driveway	45	61	0.01033	298.9	0.19	1.17E-01	1.35E-06	8.71E-09	1.36E-06
Campus Ave - PA 3 Driveway to Eucalyptus Ave	45	18	0.01033	122.7	0.08	1.44E-02	1.67E-07	2.61E-09	1.69E-07
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	45	18	0.01033	163.4	0.10	1.92E-02	2.22E-07	2.61E-09	2.25E-07
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	45	18	0.01033	247.2	0.15	2.90E-02	3.36E-07	2.61E-09	3.39E-07
Eucalyptus Ave - Bon View Ave to Driveway #4	45	128	0.01033	181.8	0.11	1.50E-01	1.73E-06	1.89E-08	1.75E-06
Eucalyptus Ave - Driveway #4 to Driveway #6	45	137	0.01033	140.3	0.09	1.23E-01	1.43E-06	2.02E-08	1.45E-06
Eucalyptus Ave - Driveway #6 to Driveway #8	45	94	0.01033	153	0.10	9.24E-02	1.07E-06	1.39E-08	1.08E-06
Eucalyptus Ave - Driveway #8 to Driveway #9	45	51	0.01033	160.1	0.10	5.28E-02	6.11E-07	7.56E-09	6.18E-07
Grove Ave - Merrill Ave to Driveway #11	50	445	0.00258	384.6	0.24	2.74E-01	3.17E-06	5.90E-08	3.23E-06
Grove Ave - Driveway #11 to Driveway #9	50	86	0.00258	589.2	0.37	8.07E-02	9.34E-07	1.13E-08	9.45E-07
Driveway #1	15	43	0.00859	18.2	0.01	4.16E-03	4.81E-08	1.89E-08	6.70E-08
Driveway #4	15	43	0.00859	124.3	0.08	2.84E-02	3.29E-07	1.89E-08	3.48E-07
Driveway #6	15	43	0.00859	124.1	0.08	2.83E-02	3.28E-07	1.89E-08	3.47E-07
Driveway #7	15	240	0.00859	59.1	0.04	7.56E-02	8.75E-07	1.06E-07	9.81E-07
Driveway #8	15	43	0.00859	124.5	0.08	2.84E-02	3.29E-07	1.89E-08	3.48E-07
Driveway #9	15	86	0.00859	123.1	0.08	5.62E-02	6.51E-07	3.78E-08	6.89E-07
Driveway #11	15	360	0.00859	34.6	0.02	6.64E-02	7.68E-07	1.59E-07	9.27E-07
PA 3 Driveway - Campus Ave	15	43	0.00859	31.6	0.02	7.20E-03	8.33E-08	1.83E-08	1.02E-07
PA 3 Driveway - Eucalyptus Ave	15	37	0.00859	32.7	0.02	6.39E-03	7.39E-08	1.57E-08	8.96E-08
PA 3 Driveway - Bon View Ave	15	43	0.00859	52.6	0.03	1.20E-02	1.39E-07	1.83E-08	1.57E-07
PA 4 Driveway - Merrill Ave	15	214	0.00859	38.7	0.02	4.41E-02	5.10E-07	9.15E-08	6.02E-07
PA 4 Driveway - Campus Ave	15	92	0.00859	38.7	0.02	1.89E-02	2.19E-07	3.92E-08	2.58E-07
PA 4 Driveway - Bon View Ave	15	92	0.00859	52.6	0.03	2.57E-02	2.97E-07	3.92E-08	3.37E-07
PA 5 Driveway	15	92	0.00859	29	0.02	1.42E-02	1.64E-07	3.92E-08	2.03E-07
On-site Circulation - Bldgs 4-8 and Bldg 2	15	222	0.00859	779.3	0.48	9.25E-01	1.07E-05	0.00E+00	1.07E-05
On-site Circulation - Bldg 1 WEST	15	192	0.00859	752.6	0.47	7.72E-01	8.94E-06	0.00E+00	8.94E-06
On-site Circulation - Bldg 1 EAST	15	190	0.00859	783.6	0.49	7.96E-01	9.21E-06	0.00E+00	9.21E-06
On-site Circulation - Driveway 11	15	251	0.00859	426.2	0.26	5.71E-01	6.61E-06	3.78E-07	6.99E-06
On-site Circulation - PA 3	15	150	0.00859	775.4	0.48	6.21E-01	7.18E-06	0.00E+00	7.18E-06
On-site Circulation - PA 4 Loading Area 1	15	175	0.00859	800.3	0.50	7.47E-01	8.65E-06	1.00E-07	8.75E-06
On-site Circulation - PA 4 Loading Area 2	15	175	0.00859	778.4	0.48	7.27E-01	8.41E-06	1.00E-07	8.51E-06
On-site Circulation - PA 5	15	110	0.00859	806.6	0.50	4.74E-01	5.48E-06	6.12E-08	5.54E-06

Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Emissions Rate (g/sec)	TRU Emissions Rate (g/sec)	Total Emissions Rate (g/sec)
Idle - Building 1 Loading Docks - East	Idle	190	0.001514147	0.25	7.21E-02	8.34E-07	0.00E+00	8.34E-07
Idle - Building 1 Loading Docks - West	Idle	192	0.001514147	0.25	7.28E-02	8.42E-07	0.00E+00	8.42E-07
Idle - Building 2 Loading Docks - North	Idle	113	0.001514147	0.25	4.28E-02	4.95E-07	0.00E+00	4.95E-07
Idle - Building 2 Loading Docks - South	Idle	115	0.001514147	0.25	4.35E-02	5.04E-07	0.00E+00	5.04E-07
Idle - Building 3 Loading Docks	Idle	136	0.001514147	0.25	5.15E-02	5.96E-07	7.09E-05	7.15E-05
Idle - Building 4 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 5 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 6 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 7 Loading Docks	Idle	26	0.001514147	0.25	9.99E-03	1.16E-07	0.00E+00	1.16E-07
Idle - Building 8 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - PA 3 - Loading Area	Idle	150	0.001514147	0.25	5.68E-02	6.57E-07	0.00E+00	6.57E-07
Idle - PA 4 - Loading Area 1	Idle	175	0.001514147	0.25	6.62E-02	7.67E-07	1.88E-05	1.95E-05
Idle - PA 4 - Loading Area 2	Idle	175	0.001514147	0.25	6.62E-02	7.67E-07	1.88E-05	1.95E-05
Idle - PA 5 - Loading Area	Idle	110	0.001514147	0.25	4.16E-02	4.82E-07	1.15E-05	1.20E-05

TRUCK TRIP DISTRIBUTION		
To Site	Total Trucks	Total Trucks w/TRUs
Euclid Ave - Red Bud Lane to Merrill Ave	440	70
Euclid Ave - Merrill Ave to SR-71	293	47
Merrill Ave - Euclid Ave to Bon View Ave	733	116
Merrill Ave - Archibald Ave to Grove Ave	733	116
Merrill Ave - Campus Ave to PA 4 Driveway	581	92
Merrill Ave - PA 4 Driveway to Bon View Ave	489	77
Merrill Ave - Bon View Ave to Driveway 7	470	74
Merrill Ave - Driveway 7 to PA 5 Driveway	368	57
Merrill Ave - PA 5 Driveway to Grove Ave	246	39
Bon View Ave - Merrill Ave to PA 4 Driveway	324	51
Bon View Ave - PA 4 Driveway to Driveway 1	232	37
Bon View Ave - Driveway 1 to Eucalyptus Ave	147	23
Campus Ave - Merrill Ave to PA 4 Driveway	153	24
Campus Ave - PA 4 Driveway to PA 3 Driveway	61	9
Campus Ave - PA 3 Driveway to Eucalyptus Ave	18	3
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	18	3
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	18	3
Eucalyptus Ave - Bon View Ave to Driveway #4	128	20
Eucalyptus Ave - Driveway #4 to Driveway #6	137	22
Eucalyptus Ave - Driveway #6 to Driveway #8	94	15
Eucalyptus Ave - Driveway #8 to Driveway #9	51	8
Grove Ave - Merrill Ave to Driveway #11	445	71
Grove Ave - Driveway #11 to Driveway #9	86	14
Driveway #1	43	7
Driveway #4	43	7
Driveway #6	43	7
Driveway #7	240	38
Driveway #8	43	7
Driveway #9	86	14
Driveway #11	360	57
PA 3 Driveway - Campus Ave	43	7
PA 3 Driveway - Eucalyptus Ave	37	6
PA 3 Driveway - Bon View Ave	43	7
PA 4 Driveway - Merrill Ave	214	33
PA 4 Driveway - Campus Ave	92	14
PA 4 Driveway - Bon View Ave	92	14
PA 5 Driveway	92	14
On-site Circulation - Bldgs 4-8 and Bldg 2	222	0
On-site Circulation - Bldg 1 WEST	192	0
On-site Circulation - Bldg 1 EAST	190	0
On-site Circulation - Driveway 11	251	136
On-site Circulation - PA 3	150	0
On-site Circulation - PA 4 Loading Area 1	175	36
On-site Circulation - PA 4 Loading Area 2	175	36
On-site Circulation - PA 5	110	22
Idle - Building 1 Loading Docks - East	190	0
Idle - Building 1 Loading Docks - West	192	0
Idle - Building 2 Loading Docks - North	113	0
Idle - Building 2 Loading Docks - South	115	0
Idle - Building 3 Loading Docks	136	136
Idle - Building 4 Loading Docks	21	0
Idle - Building 5 Loading Docks	21	0
Idle - Building 6 Loading Docks	21	0
Idle - Building 7 Loading Docks	26	0
Idle - Building 8 Loading Docks	21	0
Idle - PA 3 - Loading Area	150	0
Idle - PA 4 - Loading Area 1	175	36
Idle - PA 4 - Loading Area 2	175	36
Idle - PA 5 - Loading Area	110	22



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\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.9.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 3/8/2021

\*\* File: C:\Lakes\AERMOD View\SOL\_construction\_r\SOL\_construction\_r.ADI

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\*\* AERMOD Control Pathway

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CO STARTING

TITLEONE Construction

MODELOPT DFAULT CONC

AVERTIME 1 24 PERIOD

URBANOPT 2035210 San\_Bernardino\_County

POLLUTID PM\_10

RUNORNOT RUN

ERRORFIL SOL\_construction\_r.err

CO FINISHED

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\*\* AERMOD Source Pathway

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SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000165

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439897.910, 3762688.093, 217.36, 3.66, 5.58

\*\* 439897.649, 3762632.423, 216.86, 3.66, 5.58

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\*\* 439900.113, 3762370.124, 213.55, 3.66, 5.58  
 \*\* 439898.053, 3762075.508, 210.11, 3.66, 5.58  
 \*\* 439895.792, 3761276.665, 202.47, 3.66, 5.58  
 \*\* 439895.843, 3760467.600, 193.65, 3.66, 5.58

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LOCATION	VOLUME				
L0015628	VOLUME	439897.882	3762682.093	217.46	
L0015629	VOLUME	439897.826	3762670.093	217.29	
L0015630	VOLUME	439897.770	3762658.093	217.15	
L0015631	VOLUME	439897.713	3762646.093	217.01	
L0015632	VOLUME	439897.657	3762634.093	216.85	
L0015633	VOLUME	439897.746	3762622.094	216.69	
L0015634	VOLUME	439897.859	3762610.094	216.53	
L0015635	VOLUME	439897.972	3762598.095	216.38	
L0015636	VOLUME	439898.084	3762586.095	216.23	
L0015637	VOLUME	439898.197	3762574.096	216.09	
L0015638	VOLUME	439898.310	3762562.096	215.96	
L0015639	VOLUME	439898.423	3762550.097	215.83	
L0015640	VOLUME	439898.535	3762538.097	215.68	
L0015641	VOLUME	439898.648	3762526.098	215.54	
L0015642	VOLUME	439898.761	3762514.098	215.40	
L0015643	VOLUME	439898.873	3762502.099	215.28	
L0015644	VOLUME	439898.986	3762490.100	215.15	
L0015645	VOLUME	439899.099	3762478.100	215.02	
L0015646	VOLUME	439899.212	3762466.101	214.89	
L0015647	VOLUME	439899.324	3762454.101	214.75	
L0015648	VOLUME	439899.437	3762442.102	214.59	
L0015649	VOLUME	439899.550	3762430.102	214.43	
L0015650	VOLUME	439899.663	3762418.103	214.28	
L0015651	VOLUME	439899.775	3762406.103	214.12	
L0015652	VOLUME	439899.888	3762394.104	213.97	
L0015653	VOLUME	439900.001	3762382.104	213.81	
L0015654	VOLUME	439900.113	3762370.105	213.66	
L0015655	VOLUME	439900.029	3762358.105	213.50	
L0015656	VOLUME	439899.945	3762346.105	213.33	
L0015657	VOLUME	439899.861	3762334.106	213.16	
L0015658	VOLUME	439899.778	3762322.106	212.98	
L0015659	VOLUME	439899.694	3762310.106	212.80	
L0015660	VOLUME	439899.610	3762298.107	212.61	
L0015661	VOLUME	439899.526	3762286.107	212.40	
L0015662	VOLUME	439899.442	3762274.107	212.20	
L0015663	VOLUME	439899.358	3762262.107	212.00	
L0015664	VOLUME	439899.274	3762250.108	211.81	
L0015665	VOLUME	439899.190	3762238.108	211.62	
L0015666	VOLUME	439899.106	3762226.108	211.45	
L0015667	VOLUME	439899.022	3762214.109	211.29	
L0015668	VOLUME	439898.938	3762202.109	211.14	
L0015669	VOLUME	439898.854	3762190.109	211.00	
L0015670	VOLUME	439898.771	3762178.110	210.87	

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LOCATION L0015671	VOLUME	439898.687	3762166.110	210.76
LOCATION L0015672	VOLUME	439898.603	3762154.110	210.65
LOCATION L0015673	VOLUME	439898.519	3762142.110	210.56
LOCATION L0015674	VOLUME	439898.435	3762130.111	210.48
LOCATION L0015675	VOLUME	439898.351	3762118.111	210.40
LOCATION L0015676	VOLUME	439898.267	3762106.111	210.32
LOCATION L0015677	VOLUME	439898.183	3762094.112	210.23
LOCATION L0015678	VOLUME	439898.099	3762082.112	210.14
LOCATION L0015679	VOLUME	439898.038	3762070.112	210.04
LOCATION L0015680	VOLUME	439898.004	3762058.112	209.95
LOCATION L0015681	VOLUME	439897.970	3762046.112	209.86
LOCATION L0015682	VOLUME	439897.936	3762034.112	209.77
LOCATION L0015683	VOLUME	439897.902	3762022.112	209.68
LOCATION L0015684	VOLUME	439897.868	3762010.112	209.59
LOCATION L0015685	VOLUME	439897.834	3761998.112	209.50
LOCATION L0015686	VOLUME	439897.800	3761986.112	209.40
LOCATION L0015687	VOLUME	439897.766	3761974.112	209.30
LOCATION L0015688	VOLUME	439897.732	3761962.113	209.19
LOCATION L0015689	VOLUME	439897.698	3761950.113	209.08
LOCATION L0015690	VOLUME	439897.664	3761938.113	208.97
LOCATION L0015691	VOLUME	439897.630	3761926.113	208.87
LOCATION L0015692	VOLUME	439897.596	3761914.113	208.76
LOCATION L0015693	VOLUME	439897.562	3761902.113	208.66
LOCATION L0015694	VOLUME	439897.528	3761890.113	208.55
LOCATION L0015695	VOLUME	439897.494	3761878.113	208.45
LOCATION L0015696	VOLUME	439897.460	3761866.113	208.35
LOCATION L0015697	VOLUME	439897.426	3761854.113	208.25
LOCATION L0015698	VOLUME	439897.392	3761842.113	208.15
LOCATION L0015699	VOLUME	439897.358	3761830.113	208.04
LOCATION L0015700	VOLUME	439897.324	3761818.113	207.94
LOCATION L0015701	VOLUME	439897.291	3761806.113	207.83
LOCATION L0015702	VOLUME	439897.257	3761794.113	207.72
LOCATION L0015703	VOLUME	439897.223	3761782.113	207.62
LOCATION L0015704	VOLUME	439897.189	3761770.113	207.51
LOCATION L0015705	VOLUME	439897.155	3761758.113	207.40
LOCATION L0015706	VOLUME	439897.121	3761746.113	207.29
LOCATION L0015707	VOLUME	439897.087	3761734.113	207.19
LOCATION L0015708	VOLUME	439897.053	3761722.113	207.08
LOCATION L0015709	VOLUME	439897.019	3761710.114	206.99
LOCATION L0015710	VOLUME	439896.985	3761698.114	206.89
LOCATION L0015711	VOLUME	439896.951	3761686.114	206.79
LOCATION L0015712	VOLUME	439896.917	3761674.114	206.69
LOCATION L0015713	VOLUME	439896.883	3761662.114	206.58
LOCATION L0015714	VOLUME	439896.849	3761650.114	206.47
LOCATION L0015715	VOLUME	439896.815	3761638.114	206.38
LOCATION L0015716	VOLUME	439896.781	3761626.114	206.28
LOCATION L0015717	VOLUME	439896.747	3761614.114	206.19
LOCATION L0015718	VOLUME	439896.713	3761602.114	206.10

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LOCATION L0015719	VOLUME	439896.679	3761590.114	206.00
LOCATION L0015720	VOLUME	439896.645	3761578.114	205.88
LOCATION L0015721	VOLUME	439896.611	3761566.114	205.76
LOCATION L0015722	VOLUME	439896.577	3761554.114	205.62
LOCATION L0015723	VOLUME	439896.543	3761542.114	205.48
LOCATION L0015724	VOLUME	439896.509	3761530.114	205.34
LOCATION L0015725	VOLUME	439896.475	3761518.114	205.20
LOCATION L0015726	VOLUME	439896.441	3761506.114	205.06
LOCATION L0015727	VOLUME	439896.407	3761494.114	204.92
LOCATION L0015728	VOLUME	439896.373	3761482.114	204.78
LOCATION L0015729	VOLUME	439896.339	3761470.114	204.64
LOCATION L0015730	VOLUME	439896.305	3761458.115	204.50
LOCATION L0015731	VOLUME	439896.272	3761446.115	204.36
LOCATION L0015732	VOLUME	439896.238	3761434.115	204.23
LOCATION L0015733	VOLUME	439896.204	3761422.115	204.08
LOCATION L0015734	VOLUME	439896.170	3761410.115	203.94
LOCATION L0015735	VOLUME	439896.136	3761398.115	203.79
LOCATION L0015736	VOLUME	439896.102	3761386.115	203.64
LOCATION L0015737	VOLUME	439896.068	3761374.115	203.48
LOCATION L0015738	VOLUME	439896.034	3761362.115	203.34
LOCATION L0015739	VOLUME	439896.000	3761350.115	203.19
LOCATION L0015740	VOLUME	439895.966	3761338.115	203.06
LOCATION L0015741	VOLUME	439895.932	3761326.115	202.93
LOCATION L0015742	VOLUME	439895.898	3761314.115	202.81
LOCATION L0015743	VOLUME	439895.864	3761302.115	202.68
LOCATION L0015744	VOLUME	439895.830	3761290.115	202.55
LOCATION L0015745	VOLUME	439895.796	3761278.115	202.42
LOCATION L0015746	VOLUME	439895.793	3761266.115	202.29
LOCATION L0015747	VOLUME	439895.793	3761254.115	202.16
LOCATION L0015748	VOLUME	439895.794	3761242.115	202.08
LOCATION L0015749	VOLUME	439895.795	3761230.115	202.00
LOCATION L0015750	VOLUME	439895.796	3761218.115	201.91
LOCATION L0015751	VOLUME	439895.796	3761206.115	201.81
LOCATION L0015752	VOLUME	439895.797	3761194.115	201.71
LOCATION L0015753	VOLUME	439895.798	3761182.115	201.59
LOCATION L0015754	VOLUME	439895.799	3761170.115	201.47
LOCATION L0015755	VOLUME	439895.799	3761158.115	201.36
LOCATION L0015756	VOLUME	439895.800	3761146.115	201.23
LOCATION L0015757	VOLUME	439895.801	3761134.115	201.10
LOCATION L0015758	VOLUME	439895.802	3761122.115	200.98
LOCATION L0015759	VOLUME	439895.802	3761110.115	200.86
LOCATION L0015760	VOLUME	439895.803	3761098.115	200.74
LOCATION L0015761	VOLUME	439895.804	3761086.115	200.62
LOCATION L0015762	VOLUME	439895.805	3761074.115	200.49
LOCATION L0015763	VOLUME	439895.805	3761062.115	200.37
LOCATION L0015764	VOLUME	439895.806	3761050.115	200.23
LOCATION L0015765	VOLUME	439895.807	3761038.115	200.09
LOCATION L0015766	VOLUME	439895.808	3761026.115	199.94

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LOCATION L0015767	VOLUME	439895.808	3761014.115	199.79
LOCATION L0015768	VOLUME	439895.809	3761002.115	199.63
LOCATION L0015769	VOLUME	439895.810	3760990.115	199.48
LOCATION L0015770	VOLUME	439895.811	3760978.115	199.32
LOCATION L0015771	VOLUME	439895.811	3760966.115	199.16
LOCATION L0015772	VOLUME	439895.812	3760954.115	199.01
LOCATION L0015773	VOLUME	439895.813	3760942.115	198.86
LOCATION L0015774	VOLUME	439895.814	3760930.115	198.71
LOCATION L0015775	VOLUME	439895.814	3760918.115	198.56
LOCATION L0015776	VOLUME	439895.815	3760906.115	198.41
LOCATION L0015777	VOLUME	439895.816	3760894.115	198.25
LOCATION L0015778	VOLUME	439895.817	3760882.115	198.09
LOCATION L0015779	VOLUME	439895.817	3760870.115	197.94
LOCATION L0015780	VOLUME	439895.818	3760858.115	197.78
LOCATION L0015781	VOLUME	439895.819	3760846.115	197.61
LOCATION L0015782	VOLUME	439895.820	3760834.115	197.43
LOCATION L0015783	VOLUME	439895.820	3760822.115	197.26
LOCATION L0015784	VOLUME	439895.821	3760810.115	197.10
LOCATION L0015785	VOLUME	439895.822	3760798.115	196.95
LOCATION L0015786	VOLUME	439895.823	3760786.115	196.80
LOCATION L0015787	VOLUME	439895.823	3760774.115	196.66
LOCATION L0015788	VOLUME	439895.824	3760762.115	196.52
LOCATION L0015789	VOLUME	439895.825	3760750.115	196.38
LOCATION L0015790	VOLUME	439895.826	3760738.115	196.24
LOCATION L0015791	VOLUME	439895.826	3760726.115	196.11
LOCATION L0015792	VOLUME	439895.827	3760714.115	195.98
LOCATION L0015793	VOLUME	439895.828	3760702.115	195.85
LOCATION L0015794	VOLUME	439895.829	3760690.115	195.74
LOCATION L0015795	VOLUME	439895.829	3760678.115	195.63
LOCATION L0015796	VOLUME	439895.830	3760666.115	195.52
LOCATION L0015797	VOLUME	439895.831	3760654.115	195.42
LOCATION L0015798	VOLUME	439895.832	3760642.115	195.31
LOCATION L0015799	VOLUME	439895.832	3760630.115	195.21
LOCATION L0015800	VOLUME	439895.833	3760618.115	195.11
LOCATION L0015801	VOLUME	439895.834	3760606.115	195.01
LOCATION L0015802	VOLUME	439895.835	3760594.115	194.90
LOCATION L0015803	VOLUME	439895.835	3760582.115	194.79
LOCATION L0015804	VOLUME	439895.836	3760570.115	194.68
LOCATION L0015805	VOLUME	439895.837	3760558.115	194.57
LOCATION L0015806	VOLUME	439895.838	3760546.115	194.46
LOCATION L0015807	VOLUME	439895.838	3760534.115	194.34
LOCATION L0015808	VOLUME	439895.839	3760522.115	194.22
LOCATION L0015809	VOLUME	439895.840	3760510.115	194.10
LOCATION L0015810	VOLUME	439895.841	3760498.115	193.99
LOCATION L0015811	VOLUME	439895.841	3760486.115	193.88
LOCATION L0015812	VOLUME	439895.842	3760474.115	193.77

\*\* End of LINE VOLUME Source ID = SLINE2

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Euclid Ave - Merrill Ave to SR-71

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 7.07E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 4

\*\* 439895.965, 3760471.472, 193.72, 3.66, 5.58

\*\* 439894.002, 3760323.327, 192.76, 3.66, 5.58

\*\* 439894.252, 3759955.407, 190.38, 3.66, 5.58

\*\* 439889.660, 3759518.181, 186.91, 3.66, 5.58

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LOCATION	L0042703	VOLUME	439895.885	3760465.473	193.68
LOCATION	L0042704	VOLUME	439895.726	3760453.474	193.57
LOCATION	L0042705	VOLUME	439895.568	3760441.475	193.47
LOCATION	L0042706	VOLUME	439895.409	3760429.476	193.38
LOCATION	L0042707	VOLUME	439895.250	3760417.477	193.29
LOCATION	L0042708	VOLUME	439895.091	3760405.478	193.23
LOCATION	L0042709	VOLUME	439894.932	3760393.479	193.17
LOCATION	L0042710	VOLUME	439894.773	3760381.480	193.10
LOCATION	L0042711	VOLUME	439894.614	3760369.481	193.03
LOCATION	L0042712	VOLUME	439894.455	3760357.482	192.96
LOCATION	L0042713	VOLUME	439894.296	3760345.483	192.88
LOCATION	L0042714	VOLUME	439894.137	3760333.484	192.80
LOCATION	L0042715	VOLUME	439894.003	3760321.485	192.70
LOCATION	L0042716	VOLUME	439894.012	3760309.485	192.60
LOCATION	L0042717	VOLUME	439894.020	3760297.485	192.49
LOCATION	L0042718	VOLUME	439894.028	3760285.485	192.39
LOCATION	L0042719	VOLUME	439894.036	3760273.485	192.28
LOCATION	L0042720	VOLUME	439894.044	3760261.485	192.17
LOCATION	L0042721	VOLUME	439894.052	3760249.485	192.07
LOCATION	L0042722	VOLUME	439894.061	3760237.485	191.96
LOCATION	L0042723	VOLUME	439894.069	3760225.485	191.85
LOCATION	L0042724	VOLUME	439894.077	3760213.485	191.74
LOCATION	L0042725	VOLUME	439894.085	3760201.485	191.64
LOCATION	L0042726	VOLUME	439894.093	3760189.485	191.54
LOCATION	L0042727	VOLUME	439894.101	3760177.485	191.44
LOCATION	L0042728	VOLUME	439894.110	3760165.485	191.37
LOCATION	L0042729	VOLUME	439894.118	3760153.485	191.30
LOCATION	L0042730	VOLUME	439894.126	3760141.485	191.24
LOCATION	L0042731	VOLUME	439894.134	3760129.485	191.18
LOCATION	L0042732	VOLUME	439894.142	3760117.485	191.12
LOCATION	L0042733	VOLUME	439894.150	3760105.485	191.08
LOCATION	L0042734	VOLUME	439894.159	3760093.485	191.03
LOCATION	L0042735	VOLUME	439894.167	3760081.485	190.98

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LOCATION L0042736	VOLUME	439894.175	3760069.485	190.93
LOCATION L0042737	VOLUME	439894.183	3760057.485	190.88
LOCATION L0042738	VOLUME	439894.191	3760045.485	190.83
LOCATION L0042739	VOLUME	439894.199	3760033.485	190.78
LOCATION L0042740	VOLUME	439894.208	3760021.485	190.72
LOCATION L0042741	VOLUME	439894.216	3760009.485	190.66
LOCATION L0042742	VOLUME	439894.224	3759997.485	190.60
LOCATION L0042743	VOLUME	439894.232	3759985.485	190.53
LOCATION L0042744	VOLUME	439894.240	3759973.485	190.47
LOCATION L0042745	VOLUME	439894.248	3759961.485	190.41
LOCATION L0042746	VOLUME	439894.190	3759949.486	190.34
LOCATION L0042747	VOLUME	439894.064	3759937.486	190.27
LOCATION L0042748	VOLUME	439893.938	3759925.487	190.21
LOCATION L0042749	VOLUME	439893.812	3759913.488	190.14
LOCATION L0042750	VOLUME	439893.686	3759901.488	190.08
LOCATION L0042751	VOLUME	439893.560	3759889.489	190.01
LOCATION L0042752	VOLUME	439893.434	3759877.490	189.93
LOCATION L0042753	VOLUME	439893.308	3759865.490	189.84
LOCATION L0042754	VOLUME	439893.182	3759853.491	189.74
LOCATION L0042755	VOLUME	439893.056	3759841.492	189.64
LOCATION L0042756	VOLUME	439892.930	3759829.492	189.54
LOCATION L0042757	VOLUME	439892.804	3759817.493	189.44
LOCATION L0042758	VOLUME	439892.678	3759805.494	189.33
LOCATION L0042759	VOLUME	439892.552	3759793.494	189.23
LOCATION L0042760	VOLUME	439892.426	3759781.495	189.13
LOCATION L0042761	VOLUME	439892.300	3759769.496	189.02
LOCATION L0042762	VOLUME	439892.174	3759757.496	188.91
LOCATION L0042763	VOLUME	439892.048	3759745.497	188.80
LOCATION L0042764	VOLUME	439891.922	3759733.498	188.69
LOCATION L0042765	VOLUME	439891.795	3759721.498	188.57
LOCATION L0042766	VOLUME	439891.669	3759709.499	188.46
LOCATION L0042767	VOLUME	439891.543	3759697.500	188.36
LOCATION L0042768	VOLUME	439891.417	3759685.500	188.26
LOCATION L0042769	VOLUME	439891.291	3759673.501	188.16
LOCATION L0042770	VOLUME	439891.165	3759661.502	188.07
LOCATION L0042771	VOLUME	439891.039	3759649.502	187.97
LOCATION L0042772	VOLUME	439890.913	3759637.503	187.86
LOCATION L0042773	VOLUME	439890.787	3759625.504	187.75
LOCATION L0042774	VOLUME	439890.661	3759613.504	187.64
LOCATION L0042775	VOLUME	439890.535	3759601.505	187.54
LOCATION L0042776	VOLUME	439890.409	3759589.505	187.44
LOCATION L0042777	VOLUME	439890.283	3759577.506	187.35
LOCATION L0042778	VOLUME	439890.157	3759565.507	187.25
LOCATION L0042779	VOLUME	439890.031	3759553.507	187.15
LOCATION L0042780	VOLUME	439889.905	3759541.508	187.05
LOCATION L0042781	VOLUME	439889.779	3759529.509	186.95

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE4  
 \*\* DESCRSRC Merrill Ave - Euclid Ave to Bon View Ave  
 \*\* PREFIX  
 \*\* Length of Side = 5.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 9.57E-06  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 9  
 \*\* 439898.378, 3760465.490, 193.62, 3.66, 2.33  
 \*\* 439941.655, 3760464.977, 193.56, 3.66, 2.33  
 \*\* 440094.749, 3760465.148, 193.70, 3.66, 2.33  
 \*\* 440334.726, 3760466.319, 194.72, 3.66, 2.33  
 \*\* 440497.808, 3760467.090, 195.14, 3.66, 2.33  
 \*\* 440776.167, 3760467.090, 196.68, 3.66, 2.33  
 \*\* 440921.305, 3760465.961, 197.49, 3.66, 2.33  
 \*\* 441132.695, 3760466.945, 198.64, 3.66, 2.33  
 \*\* 441190.049, 3760466.289, 198.57, 3.66, 2.33  
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LOCATION	VOLUME	439900.877	3760465.460	193.70
L0016324	VOLUME	439905.877	3760465.401	193.70
L0016325	VOLUME	439910.877	3760465.342	193.70
L0016326	VOLUME	439915.876	3760465.283	193.71
L0016327	VOLUME	439920.876	3760465.223	193.71
L0016328	VOLUME	439925.876	3760465.164	193.70
L0016329	VOLUME	439930.875	3760465.105	193.68
L0016330	VOLUME	439935.875	3760465.045	193.65
L0016331	VOLUME	439940.875	3760464.986	193.63
L0016332	VOLUME	439945.875	3760464.982	193.61
L0016333	VOLUME	439950.875	3760464.987	193.59
L0016334	VOLUME	439955.875	3760464.993	193.58
L0016335	VOLUME	439960.875	3760464.998	193.58
L0016336	VOLUME	439965.875	3760465.004	193.57
L0016337	VOLUME	439970.875	3760465.010	193.56
L0016338	VOLUME	439975.875	3760465.015	193.56
L0016339	VOLUME	439980.875	3760465.021	193.56
L0016340	VOLUME	439985.875	3760465.026	193.57
L0016341	VOLUME	439990.875	3760465.032	193.57
L0016342	VOLUME	439995.875	3760465.037	193.57
L0016343	VOLUME	440000.875	3760465.043	193.58
L0016344	VOLUME	440005.875	3760465.049	193.58
L0016345	VOLUME	440010.875	3760465.054	193.58
L0016346	VOLUME	440015.875	3760465.060	193.58
L0016347	VOLUME	440020.875	3760465.065	193.58
L0016348	VOLUME	440025.874	3760465.071	193.59
L0016349	VOLUME	440030.874	3760465.077	193.59
L0016350	VOLUME	440035.874	3760465.082	193.59
L0016351	VOLUME			



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LOCATION L0016352	VOLUME	440040.874	3760465.088	193.60
LOCATION L0016353	VOLUME	440045.874	3760465.093	193.60
LOCATION L0016354	VOLUME	440050.874	3760465.099	193.60
LOCATION L0016355	VOLUME	440055.874	3760465.105	193.61
LOCATION L0016356	VOLUME	440060.874	3760465.110	193.62
LOCATION L0016357	VOLUME	440065.874	3760465.116	193.63
LOCATION L0016358	VOLUME	440070.874	3760465.121	193.64
LOCATION L0016359	VOLUME	440075.874	3760465.127	193.65
LOCATION L0016360	VOLUME	440080.874	3760465.132	193.65
LOCATION L0016361	VOLUME	440085.874	3760465.138	193.66
LOCATION L0016362	VOLUME	440090.874	3760465.144	193.66
LOCATION L0016363	VOLUME	440095.874	3760465.153	193.66
LOCATION L0016364	VOLUME	440100.874	3760465.178	193.67
LOCATION L0016365	VOLUME	440105.874	3760465.202	193.68
LOCATION L0016366	VOLUME	440110.874	3760465.227	193.69
LOCATION L0016367	VOLUME	440115.874	3760465.251	193.70
LOCATION L0016368	VOLUME	440120.874	3760465.275	193.72
LOCATION L0016369	VOLUME	440125.874	3760465.300	193.73
LOCATION L0016370	VOLUME	440130.874	3760465.324	193.75
LOCATION L0016371	VOLUME	440135.874	3760465.349	193.78
LOCATION L0016372	VOLUME	440140.874	3760465.373	193.80
LOCATION L0016373	VOLUME	440145.874	3760465.397	193.83
LOCATION L0016374	VOLUME	440150.874	3760465.422	193.86
LOCATION L0016375	VOLUME	440155.874	3760465.446	193.88
LOCATION L0016376	VOLUME	440160.874	3760465.471	193.91
LOCATION L0016377	VOLUME	440165.874	3760465.495	193.94
LOCATION L0016378	VOLUME	440170.874	3760465.520	193.97
LOCATION L0016379	VOLUME	440175.873	3760465.544	194.00
LOCATION L0016380	VOLUME	440180.873	3760465.568	194.02
LOCATION L0016381	VOLUME	440185.873	3760465.593	194.05
LOCATION L0016382	VOLUME	440190.873	3760465.617	194.07
LOCATION L0016383	VOLUME	440195.873	3760465.642	194.10
LOCATION L0016384	VOLUME	440200.873	3760465.666	194.12
LOCATION L0016385	VOLUME	440205.873	3760465.690	194.14
LOCATION L0016386	VOLUME	440210.873	3760465.715	194.16
LOCATION L0016387	VOLUME	440215.873	3760465.739	194.18
LOCATION L0016388	VOLUME	440220.873	3760465.764	194.19
LOCATION L0016389	VOLUME	440225.873	3760465.788	194.21
LOCATION L0016390	VOLUME	440230.873	3760465.812	194.22
LOCATION L0016391	VOLUME	440235.873	3760465.837	194.26
LOCATION L0016392	VOLUME	440240.873	3760465.861	194.30
LOCATION L0016393	VOLUME	440245.873	3760465.886	194.33
LOCATION L0016394	VOLUME	440250.873	3760465.910	194.37
LOCATION L0016395	VOLUME	440255.873	3760465.934	194.41
LOCATION L0016396	VOLUME	440260.872	3760465.959	194.44
LOCATION L0016397	VOLUME	440265.872	3760465.983	194.47
LOCATION L0016398	VOLUME	440270.872	3760466.008	194.50
LOCATION L0016399	VOLUME	440275.872	3760466.032	194.53

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LOCATION L0016400	VOLUME	440280.872	3760466.056	194.56
LOCATION L0016401	VOLUME	440285.872	3760466.081	194.57
LOCATION L0016402	VOLUME	440290.872	3760466.105	194.59
LOCATION L0016403	VOLUME	440295.872	3760466.130	194.60
LOCATION L0016404	VOLUME	440300.872	3760466.154	194.62
LOCATION L0016405	VOLUME	440305.872	3760466.178	194.63
LOCATION L0016406	VOLUME	440310.872	3760466.203	194.65
LOCATION L0016407	VOLUME	440315.872	3760466.227	194.67
LOCATION L0016408	VOLUME	440320.872	3760466.252	194.69
LOCATION L0016409	VOLUME	440325.872	3760466.276	194.71
LOCATION L0016410	VOLUME	440330.872	3760466.300	194.73
LOCATION L0016411	VOLUME	440335.872	3760466.325	194.76
LOCATION L0016412	VOLUME	440340.872	3760466.348	194.78
LOCATION L0016413	VOLUME	440345.871	3760466.372	194.80
LOCATION L0016414	VOLUME	440350.871	3760466.396	194.82
LOCATION L0016415	VOLUME	440355.871	3760466.419	194.84
LOCATION L0016416	VOLUME	440360.871	3760466.443	194.88
LOCATION L0016417	VOLUME	440365.871	3760466.466	194.94
LOCATION L0016418	VOLUME	440370.871	3760466.490	195.00
LOCATION L0016419	VOLUME	440375.871	3760466.514	195.07
LOCATION L0016420	VOLUME	440380.871	3760466.537	195.13
LOCATION L0016421	VOLUME	440385.871	3760466.561	195.19
LOCATION L0016422	VOLUME	440390.871	3760466.585	195.21
LOCATION L0016423	VOLUME	440395.871	3760466.608	195.23
LOCATION L0016424	VOLUME	440400.871	3760466.632	195.25
LOCATION L0016425	VOLUME	440405.871	3760466.656	195.27
LOCATION L0016426	VOLUME	440410.871	3760466.679	195.29
LOCATION L0016427	VOLUME	440415.871	3760466.703	195.24
LOCATION L0016428	VOLUME	440420.871	3760466.726	195.20
LOCATION L0016429	VOLUME	440425.871	3760466.750	195.15
LOCATION L0016430	VOLUME	440430.871	3760466.774	195.11
LOCATION L0016431	VOLUME	440435.870	3760466.797	195.06
LOCATION L0016432	VOLUME	440440.870	3760466.821	195.07
LOCATION L0016433	VOLUME	440445.870	3760466.845	195.08
LOCATION L0016434	VOLUME	440450.870	3760466.868	195.09
LOCATION L0016435	VOLUME	440455.870	3760466.892	195.11
LOCATION L0016436	VOLUME	440460.870	3760466.916	195.12
LOCATION L0016437	VOLUME	440465.870	3760466.939	195.13
LOCATION L0016438	VOLUME	440470.870	3760466.963	195.14
LOCATION L0016439	VOLUME	440475.870	3760466.987	195.15
LOCATION L0016440	VOLUME	440480.870	3760467.010	195.16
LOCATION L0016441	VOLUME	440485.870	3760467.034	195.17
LOCATION L0016442	VOLUME	440490.870	3760467.057	195.18
LOCATION L0016443	VOLUME	440495.870	3760467.081	195.20
LOCATION L0016444	VOLUME	440500.870	3760467.090	195.21
LOCATION L0016445	VOLUME	440505.870	3760467.090	195.22
LOCATION L0016446	VOLUME	440510.870	3760467.090	195.23
LOCATION L0016447	VOLUME	440515.870	3760467.090	195.25

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LOCATION L0016448	VOLUME	440520.870	3760467.090	195.26
LOCATION L0016449	VOLUME	440525.870	3760467.090	195.28
LOCATION L0016450	VOLUME	440530.870	3760467.090	195.29
LOCATION L0016451	VOLUME	440535.870	3760467.090	195.31
LOCATION L0016452	VOLUME	440540.870	3760467.090	195.32
LOCATION L0016453	VOLUME	440545.870	3760467.090	195.34
LOCATION L0016454	VOLUME	440550.870	3760467.090	195.35
LOCATION L0016455	VOLUME	440555.870	3760467.090	195.37
LOCATION L0016456	VOLUME	440560.870	3760467.090	195.38
LOCATION L0016457	VOLUME	440565.870	3760467.090	195.40
LOCATION L0016458	VOLUME	440570.870	3760467.090	195.42
LOCATION L0016459	VOLUME	440575.870	3760467.090	195.43
LOCATION L0016460	VOLUME	440580.870	3760467.090	195.45
LOCATION L0016461	VOLUME	440585.870	3760467.090	195.47
LOCATION L0016462	VOLUME	440590.870	3760467.090	195.49
LOCATION L0016463	VOLUME	440595.870	3760467.090	195.51
LOCATION L0016464	VOLUME	440600.870	3760467.090	195.52
LOCATION L0016465	VOLUME	440605.870	3760467.090	195.54
LOCATION L0016466	VOLUME	440610.870	3760467.090	195.55
LOCATION L0016467	VOLUME	440615.870	3760467.090	195.57
LOCATION L0016468	VOLUME	440620.870	3760467.090	195.58
LOCATION L0016469	VOLUME	440625.870	3760467.090	195.60
LOCATION L0016470	VOLUME	440630.870	3760467.090	195.61
LOCATION L0016471	VOLUME	440635.870	3760467.090	195.63
LOCATION L0016472	VOLUME	440640.870	3760467.090	195.64
LOCATION L0016473	VOLUME	440645.870	3760467.090	195.66
LOCATION L0016474	VOLUME	440650.870	3760467.090	195.68
LOCATION L0016475	VOLUME	440655.870	3760467.090	195.70
LOCATION L0016476	VOLUME	440660.870	3760467.090	195.72
LOCATION L0016477	VOLUME	440665.870	3760467.090	195.73
LOCATION L0016478	VOLUME	440670.870	3760467.090	195.76
LOCATION L0016479	VOLUME	440675.870	3760467.090	195.78
LOCATION L0016480	VOLUME	440680.870	3760467.090	195.81
LOCATION L0016481	VOLUME	440685.870	3760467.090	195.83
LOCATION L0016482	VOLUME	440690.870	3760467.090	195.85
LOCATION L0016483	VOLUME	440695.870	3760467.090	195.88
LOCATION L0016484	VOLUME	440700.870	3760467.090	195.90
LOCATION L0016485	VOLUME	440705.870	3760467.090	195.93
LOCATION L0016486	VOLUME	440710.870	3760467.090	195.95
LOCATION L0016487	VOLUME	440715.870	3760467.090	195.98
LOCATION L0016488	VOLUME	440720.870	3760467.090	196.01
LOCATION L0016489	VOLUME	440725.870	3760467.090	196.05
LOCATION L0016490	VOLUME	440730.870	3760467.090	196.09
LOCATION L0016491	VOLUME	440735.870	3760467.090	196.13
LOCATION L0016492	VOLUME	440740.870	3760467.090	196.17
LOCATION L0016493	VOLUME	440745.870	3760467.090	196.23
LOCATION L0016494	VOLUME	440750.870	3760467.090	196.31
LOCATION L0016495	VOLUME	440755.870	3760467.090	196.38

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LOCATION L0016496	VOLUME	440760.870	3760467.090	196.46
LOCATION L0016497	VOLUME	440765.870	3760467.090	196.54
LOCATION L0016498	VOLUME	440770.870	3760467.090	196.61
LOCATION L0016499	VOLUME	440775.870	3760467.090	196.63
LOCATION L0016500	VOLUME	440780.870	3760467.054	196.65
LOCATION L0016501	VOLUME	440785.869	3760467.015	196.67
LOCATION L0016502	VOLUME	440790.869	3760466.976	196.69
LOCATION L0016503	VOLUME	440795.869	3760466.937	196.71
LOCATION L0016504	VOLUME	440800.869	3760466.898	196.69
LOCATION L0016505	VOLUME	440805.869	3760466.859	196.68
LOCATION L0016506	VOLUME	440810.869	3760466.820	196.66
LOCATION L0016507	VOLUME	440815.869	3760466.781	196.65
LOCATION L0016508	VOLUME	440820.868	3760466.743	196.63
LOCATION L0016509	VOLUME	440825.868	3760466.704	196.66
LOCATION L0016510	VOLUME	440830.868	3760466.665	196.69
LOCATION L0016511	VOLUME	440835.868	3760466.626	196.72
LOCATION L0016512	VOLUME	440840.868	3760466.587	196.75
LOCATION L0016513	VOLUME	440845.868	3760466.548	196.78
LOCATION L0016514	VOLUME	440850.868	3760466.509	196.81
LOCATION L0016515	VOLUME	440855.867	3760466.470	196.85
LOCATION L0016516	VOLUME	440860.867	3760466.431	196.89
LOCATION L0016517	VOLUME	440865.867	3760466.393	196.93
LOCATION L0016518	VOLUME	440870.867	3760466.354	196.97
LOCATION L0016519	VOLUME	440875.867	3760466.315	197.02
LOCATION L0016520	VOLUME	440880.867	3760466.276	197.06
LOCATION L0016521	VOLUME	440885.866	3760466.237	197.11
LOCATION L0016522	VOLUME	440890.866	3760466.198	197.16
LOCATION L0016523	VOLUME	440895.866	3760466.159	197.21
LOCATION L0016524	VOLUME	440900.866	3760466.120	197.26
LOCATION L0016525	VOLUME	440905.866	3760466.081	197.31
LOCATION L0016526	VOLUME	440910.866	3760466.043	197.36
LOCATION L0016527	VOLUME	440915.866	3760466.004	197.40
LOCATION L0016528	VOLUME	440920.865	3760465.965	197.45
LOCATION L0016529	VOLUME	440925.865	3760465.983	197.49
LOCATION L0016530	VOLUME	440930.865	3760466.006	197.51
LOCATION L0016531	VOLUME	440935.865	3760466.029	197.52
LOCATION L0016532	VOLUME	440940.865	3760466.052	197.54
LOCATION L0016533	VOLUME	440945.865	3760466.076	197.56
LOCATION L0016534	VOLUME	440950.865	3760466.099	197.58
LOCATION L0016535	VOLUME	440955.865	3760466.122	197.58
LOCATION L0016536	VOLUME	440960.865	3760466.145	197.59
LOCATION L0016537	VOLUME	440965.865	3760466.169	197.60
LOCATION L0016538	VOLUME	440970.865	3760466.192	197.61
LOCATION L0016539	VOLUME	440975.865	3760466.215	197.63
LOCATION L0016540	VOLUME	440980.865	3760466.238	197.65
LOCATION L0016541	VOLUME	440985.865	3760466.262	197.68
LOCATION L0016542	VOLUME	440990.865	3760466.285	197.71
LOCATION L0016543	VOLUME	440995.865	3760466.308	197.73

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0016544	441000.865	SLINE4	3760466.331	197.76	
L0016545	441005.864	SLINE4	3760466.355	197.79	
L0016546	441010.864	SLINE4	3760466.378	197.82	
L0016547	441015.864	SLINE4	3760466.401	197.85	
L0016548	441020.864	SLINE4	3760466.424	197.88	
L0016549	441025.864	SLINE4	3760466.448	197.91	
L0016550	441030.864	SLINE4	3760466.471	197.94	
L0016551	441035.864	SLINE4	3760466.494	197.97	
L0016552	441040.864	SLINE4	3760466.518	198.00	
L0016553	441045.864	SLINE4	3760466.541	198.03	
L0016554	441050.864	SLINE4	3760466.564	198.06	
L0016555	441055.864	SLINE4	3760466.587	198.09	
L0016556	441060.864	SLINE4	3760466.611	198.13	
L0016557	441065.864	SLINE4	3760466.634	198.17	
L0016558	441070.864	SLINE4	3760466.657	198.21	
L0016559	441075.864	SLINE4	3760466.680	198.25	
L0016560	441080.864	SLINE4	3760466.704	198.29	
L0016561	441085.864	SLINE4	3760466.727	198.32	
L0016562	441090.864	SLINE4	3760466.750	198.36	
L0016563	441095.863	SLINE4	3760466.773	198.40	
L0016564	441100.863	SLINE4	3760466.797	198.43	
L0016565	441105.863	SLINE4	3760466.820	198.46	
L0016566	441110.863	SLINE4	3760466.843	198.47	
L0016567	441115.863	SLINE4	3760466.866	198.49	
L0016568	441120.863	SLINE4	3760466.890	198.50	
L0016569	441125.863	SLINE4	3760466.913	198.52	
L0016570	441130.863	SLINE4	3760466.936	198.53	
L0016571	441135.863	SLINE4	3760466.908	198.54	
L0016572	441140.863	SLINE4	3760466.851	198.54	
L0016573	441145.862	SLINE4	3760466.794	198.55	
L0016574	441150.862	SLINE4	3760466.737	198.55	
L0016575	441155.862	SLINE4	3760466.680	198.56	
L0016576	441160.861	SLINE4	3760466.623	198.55	
L0016577	441165.861	SLINE4	3760466.566	198.55	
L0016578	441170.861	SLINE4	3760466.508	198.55	
L0016579	441175.860	SLINE4	3760466.451	198.55	
L0016580	441180.860	SLINE4	3760466.394	198.56	
L0016581	441185.860	SLINE4	3760466.337	198.65	

\*\* End of LINE VOLUME Source ID = SLINE4

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Merrill Ave - Archibald Ave to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000014

\*\* Vertical Dimension = 6.22

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\*\* SZINIT = 2.89

\*\* Nodes = 9

- \*\* 441994.232, 3760466.531, 199.91, 3.66, 2.33
- \*\* 442337.340, 3760467.379, 200.89, 3.66, 2.33
- \*\* 442503.283, 3760469.894, 201.12, 3.66, 2.33
- \*\* 442854.597, 3760466.401, 200.93, 3.66, 2.33
- \*\* 442983.505, 3760465.947, 201.47, 3.66, 2.33
- \*\* 443292.157, 3760466.401, 202.70, 3.66, 2.33
- \*\* 443593.547, 3760465.947, 203.28, 3.66, 2.33
- \*\* 443681.150, 3760465.947, 203.44, 3.66, 2.33
- \*\* 443881.774, 3760467.309, 204.27, 3.66, 2.33

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LOCATION L0064036      VOLUME  441996.732 3760466.537 199.87
LOCATION L0064037      VOLUME  442001.732 3760466.550 199.84
LOCATION L0064038      VOLUME  442006.732 3760466.562 199.92
LOCATION L0064039      VOLUME  442011.732 3760466.575 200.01
LOCATION L0064040      VOLUME  442016.732 3760466.587 200.10
LOCATION L0064041      VOLUME  442021.732 3760466.599 200.19
LOCATION L0064042      VOLUME  442026.732 3760466.612 200.28
LOCATION L0064043      VOLUME  442031.732 3760466.624 200.30
LOCATION L0064044      VOLUME  442036.732 3760466.636 200.31
LOCATION L0064045      VOLUME  442041.732 3760466.649 200.32
LOCATION L0064046      VOLUME  442046.732 3760466.661 200.34
LOCATION L0064047      VOLUME  442051.732 3760466.673 200.35
LOCATION L0064048      VOLUME  442056.732 3760466.686 200.36
LOCATION L0064049      VOLUME  442061.732 3760466.698 200.36
LOCATION L0064050      VOLUME  442066.732 3760466.710 200.36
LOCATION L0064051      VOLUME  442071.732 3760466.723 200.36
LOCATION L0064052      VOLUME  442076.732 3760466.735 200.36
LOCATION L0064053      VOLUME  442081.732 3760466.747 200.36
LOCATION L0064054      VOLUME  442086.732 3760466.760 200.36
LOCATION L0064055      VOLUME  442091.732 3760466.772 200.36
LOCATION L0064056      VOLUME  442096.732 3760466.784 200.35
LOCATION L0064057      VOLUME  442101.732 3760466.797 200.35
LOCATION L0064058      VOLUME  442106.732 3760466.809 200.35
LOCATION L0064059      VOLUME  442111.732 3760466.822 200.34
LOCATION L0064060      VOLUME  442116.732 3760466.834 200.34
LOCATION L0064061      VOLUME  442121.732 3760466.846 200.34
LOCATION L0064062      VOLUME  442126.732 3760466.859 200.33
LOCATION L0064063      VOLUME  442131.732 3760466.871 200.33
LOCATION L0064064      VOLUME  442136.732 3760466.883 200.34
LOCATION L0064065      VOLUME  442141.732 3760466.896 200.34
LOCATION L0064066      VOLUME  442146.732 3760466.908 200.34
LOCATION L0064067      VOLUME  442151.732 3760466.920 200.35
LOCATION L0064068      VOLUME  442156.732 3760466.933 200.35
LOCATION L0064069      VOLUME  442161.732 3760466.945 200.36
LOCATION L0064070      VOLUME  442166.732 3760466.957 200.36
LOCATION L0064071      VOLUME  442171.732 3760466.970 200.37
    
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LOCATION L0064072	VOLUME	442176.732	3760466.982	200.37
LOCATION L0064073	VOLUME	442181.732	3760466.994	200.38
LOCATION L0064074	VOLUME	442186.732	3760467.007	200.38
LOCATION L0064075	VOLUME	442191.732	3760467.019	200.38
LOCATION L0064076	VOLUME	442196.732	3760467.031	200.39
LOCATION L0064077	VOLUME	442201.732	3760467.044	200.39
LOCATION L0064078	VOLUME	442206.732	3760467.056	200.39
LOCATION L0064079	VOLUME	442211.732	3760467.069	200.40
LOCATION L0064080	VOLUME	442216.732	3760467.081	200.41
LOCATION L0064081	VOLUME	442221.732	3760467.093	200.42
LOCATION L0064082	VOLUME	442226.732	3760467.106	200.43
LOCATION L0064083	VOLUME	442231.732	3760467.118	200.44
LOCATION L0064084	VOLUME	442236.732	3760467.130	200.45
LOCATION L0064085	VOLUME	442241.732	3760467.143	200.47
LOCATION L0064086	VOLUME	442246.732	3760467.155	200.49
LOCATION L0064087	VOLUME	442251.731	3760467.167	200.51
LOCATION L0064088	VOLUME	442256.731	3760467.180	200.53
LOCATION L0064089	VOLUME	442261.731	3760467.192	200.55
LOCATION L0064090	VOLUME	442266.731	3760467.204	200.57
LOCATION L0064091	VOLUME	442271.731	3760467.217	200.59
LOCATION L0064092	VOLUME	442276.731	3760467.229	200.61
LOCATION L0064093	VOLUME	442281.731	3760467.241	200.63
LOCATION L0064094	VOLUME	442286.731	3760467.254	200.65
LOCATION L0064095	VOLUME	442291.731	3760467.266	200.66
LOCATION L0064096	VOLUME	442296.731	3760467.278	200.68
LOCATION L0064097	VOLUME	442301.731	3760467.291	200.69
LOCATION L0064098	VOLUME	442306.731	3760467.303	200.70
LOCATION L0064099	VOLUME	442311.731	3760467.316	200.73
LOCATION L0064100	VOLUME	442316.731	3760467.328	200.76
LOCATION L0064101	VOLUME	442321.731	3760467.340	200.79
LOCATION L0064102	VOLUME	442326.731	3760467.353	200.82
LOCATION L0064103	VOLUME	442331.731	3760467.365	200.85
LOCATION L0064104	VOLUME	442336.731	3760467.377	200.88
LOCATION L0064105	VOLUME	442341.731	3760467.445	200.90
LOCATION L0064106	VOLUME	442346.730	3760467.521	200.93
LOCATION L0064107	VOLUME	442351.730	3760467.597	200.96
LOCATION L0064108	VOLUME	442356.729	3760467.673	200.98
LOCATION L0064109	VOLUME	442361.728	3760467.748	201.00
LOCATION L0064110	VOLUME	442366.728	3760467.824	201.00
LOCATION L0064111	VOLUME	442371.727	3760467.900	201.00
LOCATION L0064112	VOLUME	442376.727	3760467.976	200.99
LOCATION L0064113	VOLUME	442381.726	3760468.052	200.99
LOCATION L0064114	VOLUME	442386.726	3760468.127	200.99
LOCATION L0064115	VOLUME	442391.725	3760468.203	201.01
LOCATION L0064116	VOLUME	442396.724	3760468.279	201.04
LOCATION L0064117	VOLUME	442401.724	3760468.355	201.06
LOCATION L0064118	VOLUME	442406.723	3760468.431	201.09
LOCATION L0064119	VOLUME	442411.723	3760468.506	201.11

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LOCATION L0064120	VOLUME	442416.722	3760468.582	201.13
LOCATION L0064121	VOLUME	442421.722	3760468.658	201.14
LOCATION L0064122	VOLUME	442426.721	3760468.734	201.15
LOCATION L0064123	VOLUME	442431.720	3760468.810	201.17
LOCATION L0064124	VOLUME	442436.720	3760468.885	201.18
LOCATION L0064125	VOLUME	442441.719	3760468.961	201.18
LOCATION L0064126	VOLUME	442446.719	3760469.037	201.18
LOCATION L0064127	VOLUME	442451.718	3760469.113	201.17
LOCATION L0064128	VOLUME	442456.718	3760469.189	201.17
LOCATION L0064129	VOLUME	442461.717	3760469.264	201.17
LOCATION L0064130	VOLUME	442466.716	3760469.340	201.16
LOCATION L0064131	VOLUME	442471.716	3760469.416	201.16
LOCATION L0064132	VOLUME	442476.715	3760469.492	201.15
LOCATION L0064133	VOLUME	442481.715	3760469.567	201.14
LOCATION L0064134	VOLUME	442486.714	3760469.643	201.13
LOCATION L0064135	VOLUME	442491.713	3760469.719	201.13
LOCATION L0064136	VOLUME	442496.713	3760469.795	201.12
LOCATION L0064137	VOLUME	442501.712	3760469.871	201.11
LOCATION L0064138	VOLUME	442506.712	3760469.860	201.11
LOCATION L0064139	VOLUME	442511.712	3760469.811	201.10
LOCATION L0064140	VOLUME	442516.712	3760469.761	201.09
LOCATION L0064141	VOLUME	442521.711	3760469.711	201.08
LOCATION L0064142	VOLUME	442526.711	3760469.662	201.07
LOCATION L0064143	VOLUME	442531.711	3760469.612	201.06
LOCATION L0064144	VOLUME	442536.711	3760469.562	201.05
LOCATION L0064145	VOLUME	442541.710	3760469.512	201.04
LOCATION L0064146	VOLUME	442546.710	3760469.463	201.03
LOCATION L0064147	VOLUME	442551.710	3760469.413	201.02
LOCATION L0064148	VOLUME	442556.710	3760469.363	201.01
LOCATION L0064149	VOLUME	442561.709	3760469.314	201.00
LOCATION L0064150	VOLUME	442566.709	3760469.264	200.99
LOCATION L0064151	VOLUME	442571.709	3760469.214	200.97
LOCATION L0064152	VOLUME	442576.709	3760469.164	200.96
LOCATION L0064153	VOLUME	442581.708	3760469.115	200.94
LOCATION L0064154	VOLUME	442586.708	3760469.065	200.93
LOCATION L0064155	VOLUME	442591.708	3760469.015	200.91
LOCATION L0064156	VOLUME	442596.708	3760468.966	200.91
LOCATION L0064157	VOLUME	442601.707	3760468.916	200.91
LOCATION L0064158	VOLUME	442606.707	3760468.866	200.90
LOCATION L0064159	VOLUME	442611.707	3760468.816	200.90
LOCATION L0064160	VOLUME	442616.707	3760468.767	200.90
LOCATION L0064161	VOLUME	442621.706	3760468.717	200.90
LOCATION L0064162	VOLUME	442626.706	3760468.667	200.89
LOCATION L0064163	VOLUME	442631.706	3760468.618	200.89
LOCATION L0064164	VOLUME	442636.706	3760468.568	200.89
LOCATION L0064165	VOLUME	442641.705	3760468.518	200.88
LOCATION L0064166	VOLUME	442646.705	3760468.468	200.88
LOCATION L0064167	VOLUME	442651.705	3760468.419	200.87



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LOCATION L0064168	VOLUME	442656.705	3760468.369	200.87
LOCATION L0064169	VOLUME	442661.704	3760468.319	200.86
LOCATION L0064170	VOLUME	442666.704	3760468.270	200.85
LOCATION L0064171	VOLUME	442671.704	3760468.220	200.85
LOCATION L0064172	VOLUME	442676.704	3760468.170	200.84
LOCATION L0064173	VOLUME	442681.703	3760468.120	200.83
LOCATION L0064174	VOLUME	442686.703	3760468.071	200.83
LOCATION L0064175	VOLUME	442691.703	3760468.021	200.82
LOCATION L0064176	VOLUME	442696.703	3760467.971	200.82
LOCATION L0064177	VOLUME	442701.702	3760467.922	200.82
LOCATION L0064178	VOLUME	442706.702	3760467.872	200.83
LOCATION L0064179	VOLUME	442711.702	3760467.822	200.83
LOCATION L0064180	VOLUME	442716.702	3760467.772	200.83
LOCATION L0064181	VOLUME	442721.701	3760467.723	200.84
LOCATION L0064182	VOLUME	442726.701	3760467.673	200.85
LOCATION L0064183	VOLUME	442731.701	3760467.623	200.86
LOCATION L0064184	VOLUME	442736.701	3760467.574	200.87
LOCATION L0064185	VOLUME	442741.700	3760467.524	200.88
LOCATION L0064186	VOLUME	442746.700	3760467.474	200.89
LOCATION L0064187	VOLUME	442751.700	3760467.424	200.87
LOCATION L0064188	VOLUME	442756.700	3760467.375	200.86
LOCATION L0064189	VOLUME	442761.699	3760467.325	200.85
LOCATION L0064190	VOLUME	442766.699	3760467.275	200.84
LOCATION L0064191	VOLUME	442771.699	3760467.226	200.83
LOCATION L0064192	VOLUME	442776.699	3760467.176	200.83
LOCATION L0064193	VOLUME	442781.698	3760467.126	200.83
LOCATION L0064194	VOLUME	442786.698	3760467.076	200.83
LOCATION L0064195	VOLUME	442791.698	3760467.027	200.83
LOCATION L0064196	VOLUME	442796.698	3760466.977	200.83
LOCATION L0064197	VOLUME	442801.697	3760466.927	200.82
LOCATION L0064198	VOLUME	442806.697	3760466.878	200.82
LOCATION L0064199	VOLUME	442811.697	3760466.828	200.81
LOCATION L0064200	VOLUME	442816.697	3760466.778	200.81
LOCATION L0064201	VOLUME	442821.696	3760466.728	200.81
LOCATION L0064202	VOLUME	442826.696	3760466.679	200.82
LOCATION L0064203	VOLUME	442831.696	3760466.629	200.84
LOCATION L0064204	VOLUME	442836.696	3760466.579	200.87
LOCATION L0064205	VOLUME	442841.695	3760466.530	200.89
LOCATION L0064206	VOLUME	442846.695	3760466.480	200.91
LOCATION L0064207	VOLUME	442851.695	3760466.430	200.93
LOCATION L0064208	VOLUME	442856.695	3760466.394	200.96
LOCATION L0064209	VOLUME	442861.695	3760466.376	200.98
LOCATION L0064210	VOLUME	442866.695	3760466.359	201.01
LOCATION L0064211	VOLUME	442871.695	3760466.341	201.04
LOCATION L0064212	VOLUME	442876.695	3760466.323	201.05
LOCATION L0064213	VOLUME	442881.695	3760466.306	201.07
LOCATION L0064214	VOLUME	442886.695	3760466.288	201.08
LOCATION L0064215	VOLUME	442891.695	3760466.271	201.09

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LOCATION L0064216	VOLUME	442896.695	3760466.253	201.10
LOCATION L0064217	VOLUME	442901.695	3760466.235	201.11
LOCATION L0064218	VOLUME	442906.694	3760466.218	201.13
LOCATION L0064219	VOLUME	442911.694	3760466.200	201.15
LOCATION L0064220	VOLUME	442916.694	3760466.183	201.18
LOCATION L0064221	VOLUME	442921.694	3760466.165	201.20
LOCATION L0064222	VOLUME	442926.694	3760466.147	201.22
LOCATION L0064223	VOLUME	442931.694	3760466.130	201.24
LOCATION L0064224	VOLUME	442936.694	3760466.112	201.26
LOCATION L0064225	VOLUME	442941.694	3760466.095	201.29
LOCATION L0064226	VOLUME	442946.694	3760466.077	201.31
LOCATION L0064227	VOLUME	442951.694	3760466.059	201.33
LOCATION L0064228	VOLUME	442956.694	3760466.042	201.35
LOCATION L0064229	VOLUME	442961.694	3760466.024	201.38
LOCATION L0064230	VOLUME	442966.694	3760466.007	201.40
LOCATION L0064231	VOLUME	442971.694	3760465.989	201.42
LOCATION L0064232	VOLUME	442976.694	3760465.971	201.44
LOCATION L0064233	VOLUME	442981.694	3760465.954	201.50
LOCATION L0064234	VOLUME	442986.694	3760465.952	201.56
LOCATION L0064235	VOLUME	442991.694	3760465.959	201.62
LOCATION L0064236	VOLUME	442996.694	3760465.967	201.68
LOCATION L0064237	VOLUME	443001.694	3760465.974	201.75
LOCATION L0064238	VOLUME	443006.694	3760465.981	201.76
LOCATION L0064239	VOLUME	443011.694	3760465.989	201.77
LOCATION L0064240	VOLUME	443016.694	3760465.996	201.78
LOCATION L0064241	VOLUME	443021.694	3760466.004	201.78
LOCATION L0064242	VOLUME	443026.694	3760466.011	201.79
LOCATION L0064243	VOLUME	443031.694	3760466.018	201.78
LOCATION L0064244	VOLUME	443036.694	3760466.026	201.77
LOCATION L0064245	VOLUME	443041.694	3760466.033	201.75
LOCATION L0064246	VOLUME	443046.694	3760466.040	201.74
LOCATION L0064247	VOLUME	443051.694	3760466.048	201.72
LOCATION L0064248	VOLUME	443056.694	3760466.055	201.72
LOCATION L0064249	VOLUME	443061.694	3760466.062	201.73
LOCATION L0064250	VOLUME	443066.694	3760466.070	201.74
LOCATION L0064251	VOLUME	443071.694	3760466.077	201.75
LOCATION L0064252	VOLUME	443076.694	3760466.084	201.75
LOCATION L0064253	VOLUME	443081.694	3760466.092	201.76
LOCATION L0064254	VOLUME	443086.694	3760466.099	201.78
LOCATION L0064255	VOLUME	443091.694	3760466.106	201.79
LOCATION L0064256	VOLUME	443096.694	3760466.114	201.80
LOCATION L0064257	VOLUME	443101.694	3760466.121	201.81
LOCATION L0064258	VOLUME	443106.694	3760466.129	201.83
LOCATION L0064259	VOLUME	443111.694	3760466.136	201.84
LOCATION L0064260	VOLUME	443116.694	3760466.143	201.86
LOCATION L0064261	VOLUME	443121.694	3760466.151	201.88
LOCATION L0064262	VOLUME	443126.694	3760466.158	201.89
LOCATION L0064263	VOLUME	443131.694	3760466.165	201.91

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LOCATION L0064264	VOLUME	443136.694	3760466.173	201.93
LOCATION L0064265	VOLUME	443141.694	3760466.180	201.96
LOCATION L0064266	VOLUME	443146.694	3760466.187	201.98
LOCATION L0064267	VOLUME	443151.694	3760466.195	202.00
LOCATION L0064268	VOLUME	443156.694	3760466.202	202.03
LOCATION L0064269	VOLUME	443161.694	3760466.209	202.08
LOCATION L0064270	VOLUME	443166.694	3760466.217	202.12
LOCATION L0064271	VOLUME	443171.694	3760466.224	202.17
LOCATION L0064272	VOLUME	443176.694	3760466.231	202.21
LOCATION L0064273	VOLUME	443181.694	3760466.239	202.26
LOCATION L0064274	VOLUME	443186.694	3760466.246	202.34
LOCATION L0064275	VOLUME	443191.694	3760466.254	202.42
LOCATION L0064276	VOLUME	443196.694	3760466.261	202.50
LOCATION L0064277	VOLUME	443201.694	3760466.268	202.58
LOCATION L0064278	VOLUME	443206.694	3760466.276	202.66
LOCATION L0064279	VOLUME	443211.694	3760466.283	202.69
LOCATION L0064280	VOLUME	443216.694	3760466.290	202.71
LOCATION L0064281	VOLUME	443221.694	3760466.298	202.73
LOCATION L0064282	VOLUME	443226.694	3760466.305	202.75
LOCATION L0064283	VOLUME	443231.694	3760466.312	202.76
LOCATION L0064284	VOLUME	443236.694	3760466.320	202.77
LOCATION L0064285	VOLUME	443241.694	3760466.327	202.77
LOCATION L0064286	VOLUME	443246.694	3760466.334	202.76
LOCATION L0064287	VOLUME	443251.694	3760466.342	202.76
LOCATION L0064288	VOLUME	443256.694	3760466.349	202.76
LOCATION L0064289	VOLUME	443261.694	3760466.356	202.77
LOCATION L0064290	VOLUME	443266.694	3760466.364	202.78
LOCATION L0064291	VOLUME	443271.694	3760466.371	202.80
LOCATION L0064292	VOLUME	443276.694	3760466.379	202.82
LOCATION L0064293	VOLUME	443281.694	3760466.386	202.83
LOCATION L0064294	VOLUME	443286.694	3760466.393	202.84
LOCATION L0064295	VOLUME	443291.694	3760466.401	202.85
LOCATION L0064296	VOLUME	443296.694	3760466.394	202.86
LOCATION L0064297	VOLUME	443301.694	3760466.387	202.86
LOCATION L0064298	VOLUME	443306.694	3760466.379	202.87
LOCATION L0064299	VOLUME	443311.694	3760466.372	202.89
LOCATION L0064300	VOLUME	443316.694	3760466.364	202.91
LOCATION L0064301	VOLUME	443321.694	3760466.357	202.94
LOCATION L0064302	VOLUME	443326.694	3760466.349	202.97
LOCATION L0064303	VOLUME	443331.694	3760466.342	202.99
LOCATION L0064304	VOLUME	443336.694	3760466.334	203.02
LOCATION L0064305	VOLUME	443341.694	3760466.327	203.03
LOCATION L0064306	VOLUME	443346.694	3760466.319	203.03
LOCATION L0064307	VOLUME	443351.694	3760466.312	203.04
LOCATION L0064308	VOLUME	443356.694	3760466.304	203.05
LOCATION L0064309	VOLUME	443361.694	3760466.297	203.06
LOCATION L0064310	VOLUME	443366.694	3760466.289	203.08
LOCATION L0064311	VOLUME	443371.694	3760466.281	203.10

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LOCATION L0064312	VOLUME	443376.694	3760466.274	203.12
LOCATION L0064313	VOLUME	443381.694	3760466.266	203.14
LOCATION L0064314	VOLUME	443386.694	3760466.259	203.17
LOCATION L0064315	VOLUME	443391.694	3760466.251	203.17
LOCATION L0064316	VOLUME	443396.694	3760466.244	203.17
LOCATION L0064317	VOLUME	443401.694	3760466.236	203.17
LOCATION L0064318	VOLUME	443406.694	3760466.229	203.17
LOCATION L0064319	VOLUME	443411.694	3760466.221	203.17
LOCATION L0064320	VOLUME	443416.694	3760466.214	203.18
LOCATION L0064321	VOLUME	443421.694	3760466.206	203.18
LOCATION L0064322	VOLUME	443426.694	3760466.199	203.18
LOCATION L0064323	VOLUME	443431.694	3760466.191	203.18
LOCATION L0064324	VOLUME	443436.694	3760466.184	203.19
LOCATION L0064325	VOLUME	443441.694	3760466.176	203.19
LOCATION L0064326	VOLUME	443446.693	3760466.169	203.20
LOCATION L0064327	VOLUME	443451.693	3760466.161	203.21
LOCATION L0064328	VOLUME	443456.693	3760466.153	203.22
LOCATION L0064329	VOLUME	443461.693	3760466.146	203.23
LOCATION L0064330	VOLUME	443466.693	3760466.138	203.24
LOCATION L0064331	VOLUME	443471.693	3760466.131	203.25
LOCATION L0064332	VOLUME	443476.693	3760466.123	203.26
LOCATION L0064333	VOLUME	443481.693	3760466.116	203.27
LOCATION L0064334	VOLUME	443486.693	3760466.108	203.27
LOCATION L0064335	VOLUME	443491.693	3760466.101	203.28
LOCATION L0064336	VOLUME	443496.693	3760466.093	203.27
LOCATION L0064337	VOLUME	443501.693	3760466.086	203.27
LOCATION L0064338	VOLUME	443506.693	3760466.078	203.27
LOCATION L0064339	VOLUME	443511.693	3760466.071	203.26
LOCATION L0064340	VOLUME	443516.693	3760466.063	203.26
LOCATION L0064341	VOLUME	443521.693	3760466.056	203.25
LOCATION L0064342	VOLUME	443526.693	3760466.048	203.25
LOCATION L0064343	VOLUME	443531.693	3760466.041	203.25
LOCATION L0064344	VOLUME	443536.693	3760466.033	203.25
LOCATION L0064345	VOLUME	443541.693	3760466.025	203.24
LOCATION L0064346	VOLUME	443546.693	3760466.018	203.25
LOCATION L0064347	VOLUME	443551.693	3760466.010	203.25
LOCATION L0064348	VOLUME	443556.693	3760466.003	203.25
LOCATION L0064349	VOLUME	443561.693	3760465.995	203.25
LOCATION L0064350	VOLUME	443566.693	3760465.988	203.25
LOCATION L0064351	VOLUME	443571.693	3760465.980	203.26
LOCATION L0064352	VOLUME	443576.693	3760465.973	203.26
LOCATION L0064353	VOLUME	443581.693	3760465.965	203.26
LOCATION L0064354	VOLUME	443586.693	3760465.958	203.26
LOCATION L0064355	VOLUME	443591.693	3760465.950	203.26
LOCATION L0064356	VOLUME	443596.693	3760465.947	203.28
LOCATION L0064357	VOLUME	443601.693	3760465.947	203.29
LOCATION L0064358	VOLUME	443606.693	3760465.947	203.31
LOCATION L0064359	VOLUME	443611.693	3760465.947	203.33

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LOCATION L0064360	VOLUME	443616.693	3760465.947	203.35
LOCATION L0064361	VOLUME	443621.693	3760465.947	203.36
LOCATION L0064362	VOLUME	443626.693	3760465.947	203.38
LOCATION L0064363	VOLUME	443631.693	3760465.947	203.39
LOCATION L0064364	VOLUME	443636.693	3760465.947	203.40
LOCATION L0064365	VOLUME	443641.693	3760465.947	203.42
LOCATION L0064366	VOLUME	443646.693	3760465.947	203.43
LOCATION L0064367	VOLUME	443651.693	3760465.947	203.45
LOCATION L0064368	VOLUME	443656.693	3760465.947	203.46
LOCATION L0064369	VOLUME	443661.693	3760465.947	203.48
LOCATION L0064370	VOLUME	443666.693	3760465.947	203.49
LOCATION L0064371	VOLUME	443671.693	3760465.947	203.50
LOCATION L0064372	VOLUME	443676.693	3760465.947	203.51
LOCATION L0064373	VOLUME	443681.693	3760465.951	203.52
LOCATION L0064374	VOLUME	443686.693	3760465.985	203.53
LOCATION L0064375	VOLUME	443691.693	3760466.019	203.53
LOCATION L0064376	VOLUME	443696.693	3760466.053	203.54
LOCATION L0064377	VOLUME	443701.693	3760466.087	203.55
LOCATION L0064378	VOLUME	443706.693	3760466.121	203.56
LOCATION L0064379	VOLUME	443711.693	3760466.155	203.57
LOCATION L0064380	VOLUME	443716.693	3760466.189	203.58
LOCATION L0064381	VOLUME	443721.692	3760466.223	203.59
LOCATION L0064382	VOLUME	443726.692	3760466.256	203.60
LOCATION L0064383	VOLUME	443731.692	3760466.290	203.62
LOCATION L0064384	VOLUME	443736.692	3760466.324	203.63
LOCATION L0064385	VOLUME	443741.692	3760466.358	203.64
LOCATION L0064386	VOLUME	443746.692	3760466.392	203.65
LOCATION L0064387	VOLUME	443751.692	3760466.426	203.66
LOCATION L0064388	VOLUME	443756.692	3760466.460	203.68
LOCATION L0064389	VOLUME	443761.691	3760466.494	203.70
LOCATION L0064390	VOLUME	443766.691	3760466.528	203.71
LOCATION L0064391	VOLUME	443771.691	3760466.562	203.73
LOCATION L0064392	VOLUME	443776.691	3760466.596	203.75
LOCATION L0064393	VOLUME	443781.691	3760466.630	203.78
LOCATION L0064394	VOLUME	443786.691	3760466.664	203.80
LOCATION L0064395	VOLUME	443791.691	3760466.698	203.83
LOCATION L0064396	VOLUME	443796.691	3760466.732	203.85
LOCATION L0064397	VOLUME	443801.691	3760466.766	203.88
LOCATION L0064398	VOLUME	443806.690	3760466.799	203.90
LOCATION L0064399	VOLUME	443811.690	3760466.833	203.93
LOCATION L0064400	VOLUME	443816.690	3760466.867	203.96
LOCATION L0064401	VOLUME	443821.690	3760466.901	203.98
LOCATION L0064402	VOLUME	443826.690	3760466.935	204.00
LOCATION L0064403	VOLUME	443831.690	3760466.969	204.02
LOCATION L0064404	VOLUME	443836.690	3760467.003	204.04
LOCATION L0064405	VOLUME	443841.690	3760467.037	204.05
LOCATION L0064406	VOLUME	443846.690	3760467.071	204.07
LOCATION L0064407	VOLUME	443851.689	3760467.105	204.10

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LOCATION L0064408	VOLUME	443856.689	3760467.139	204.15
LOCATION L0064409	VOLUME	443861.689	3760467.173	204.20
LOCATION L0064410	VOLUME	443866.689	3760467.207	204.25
LOCATION L0064411	VOLUME	443871.689	3760467.241	204.30
LOCATION L0064412	VOLUME	443876.689	3760467.275	204.32
LOCATION L0064413	VOLUME	443881.689	3760467.309	204.32

\*\* End of LINE VOLUME Source ID = SLINE5

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE11

\*\* DESCRSRC On-Site Construction Movement

\*\* PREFIX

\*\* Length of Side = 75.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00394

\*\* Vertical Dimension = 7.65

\*\* SZINIT = 3.56

\*\* Nodes = 20

** 440839.467, 3761241.476, 203.48, 3.83, 34.88
** 440843.774, 3760502.073, 196.88, 3.83, 34.88
** 440962.011, 3760505.804, 198.12, 3.83, 34.88
** 440967.042, 3761204.589, 204.27, 3.83, 34.88
** 441102.599, 3761202.451, 203.48, 3.83, 34.88
** 441091.785, 3760519.106, 199.19, 3.83, 34.88
** 441224.212, 3760518.319, 198.61, 3.83, 34.88
** 441224.693, 3761222.294, 203.88, 3.83, 34.88
** 441351.834, 3761220.369, 204.01, 3.83, 34.88
** 441342.744, 3760528.504, 199.88, 3.83, 34.88
** 441478.199, 3760520.597, 199.59, 3.83, 34.88
** 441473.781, 3761214.635, 204.06, 3.83, 34.88
** 441613.303, 3761211.108, 204.84, 3.83, 34.88
** 441586.511, 3760521.931, 199.92, 3.83, 34.88
** 441709.816, 3760523.808, 200.18, 3.83, 34.88
** 441704.970, 3761228.718, 205.23, 3.83, 34.88
** 441803.616, 3761225.864, 205.28, 3.83, 34.88
** 441804.128, 3760513.992, 199.97, 3.83, 34.88
** 441912.111, 3760511.362, 200.08, 3.83, 34.88
** 441911.219, 3761250.675, 205.51, 3.83, 34.88

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LOCATION L0042930	VOLUME	440839.686	3761203.977	203.01
LOCATION L0042931	VOLUME	440840.123	3761128.978	202.34
LOCATION L0042932	VOLUME	440840.559	3761053.979	201.58
LOCATION L0042933	VOLUME	440840.996	3760978.980	200.70
LOCATION L0042934	VOLUME	440841.433	3760903.982	200.23
LOCATION L0042935	VOLUME	440841.870	3760828.983	199.75
LOCATION L0042936	VOLUME	440842.306	3760753.984	199.29
LOCATION L0042937	VOLUME	440842.743	3760678.985	198.63
LOCATION L0042938	VOLUME	440843.180	3760603.987	197.94

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LOCATION L0042939	VOLUME	440843.617	3760528.988	197.07
LOCATION L0042940	VOLUME	440891.834	3760503.589	197.64
LOCATION L0042941	VOLUME	440962.045	3760510.592	198.13
LOCATION L0042942	VOLUME	440962.585	3760585.590	198.78
LOCATION L0042943	VOLUME	440963.125	3760660.588	199.22
LOCATION L0042944	VOLUME	440963.665	3760735.586	199.68
LOCATION L0042945	VOLUME	440964.205	3760810.584	199.49
LOCATION L0042946	VOLUME	440964.745	3760885.582	201.26
LOCATION L0042947	VOLUME	440965.285	3760960.580	202.03
LOCATION L0042948	VOLUME	440965.825	3761035.579	202.85
LOCATION L0042949	VOLUME	440966.365	3761110.577	203.74
LOCATION L0042950	VOLUME	440966.905	3761185.575	204.44
LOCATION L0042951	VOLUME	441023.020	3761203.706	203.46
LOCATION L0042952	VOLUME	441098.011	3761202.524	203.57
LOCATION L0042953	VOLUME	441101.485	3761132.049	203.33
LOCATION L0042954	VOLUME	441100.298	3761057.059	202.84
LOCATION L0042955	VOLUME	441099.111	3760982.068	202.11
LOCATION L0042956	VOLUME	441097.925	3760907.077	201.48
LOCATION L0042957	VOLUME	441096.738	3760832.087	201.09
LOCATION L0042958	VOLUME	441095.551	3760757.096	200.50
LOCATION L0042959	VOLUME	441094.364	3760682.106	200.48
LOCATION L0042960	VOLUME	441093.177	3760607.115	199.97
LOCATION L0042961	VOLUME	441091.991	3760532.124	199.43
LOCATION L0042962	VOLUME	441153.764	3760518.738	199.47
LOCATION L0042963	VOLUME	441224.215	3760522.870	199.29
LOCATION L0042964	VOLUME	441224.266	3760597.870	200.21
LOCATION L0042965	VOLUME	441224.317	3760672.870	200.63
LOCATION L0042966	VOLUME	441224.368	3760747.870	201.08
LOCATION L0042967	VOLUME	441224.420	3760822.870	201.50
LOCATION L0042968	VOLUME	441224.471	3760897.870	201.95
LOCATION L0042969	VOLUME	441224.522	3760972.870	202.42
LOCATION L0042970	VOLUME	441224.574	3761047.870	202.90
LOCATION L0042971	VOLUME	441224.625	3761122.870	203.35
LOCATION L0042972	VOLUME	441224.676	3761197.870	203.82
LOCATION L0042973	VOLUME	441275.263	3761221.528	204.10
LOCATION L0042974	VOLUME	441350.254	3761220.393	204.07
LOCATION L0042975	VOLUME	441350.870	3761146.955	203.65
LOCATION L0042976	VOLUME	441349.884	3761071.962	203.15
LOCATION L0042977	VOLUME	441348.899	3760996.968	202.65
LOCATION L0042978	VOLUME	441347.914	3760921.975	202.18
LOCATION L0042979	VOLUME	441346.928	3760846.981	201.77
LOCATION L0042980	VOLUME	441345.943	3760771.988	201.23
LOCATION L0042981	VOLUME	441344.958	3760696.994	200.80
LOCATION L0042982	VOLUME	441343.972	3760622.001	200.38
LOCATION L0042983	VOLUME	441342.987	3760547.007	200.18
LOCATION L0042984	VOLUME	441399.143	3760525.212	199.64
LOCATION L0042985	VOLUME	441474.015	3760520.841	199.66
LOCATION L0042986	VOLUME	441477.748	3760591.405	200.16

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LOCATION L0042987	VOLUME	441477.271	3760666.403	200.63
LOCATION L0042988	VOLUME	441476.793	3760741.402	201.04
LOCATION L0042989	VOLUME	441476.316	3760816.400	201.79
LOCATION L0042990	VOLUME	441475.838	3760891.399	202.01
LOCATION L0042991	VOLUME	441475.361	3760966.397	202.21
LOCATION L0042992	VOLUME	441474.884	3761041.396	202.93
LOCATION L0042993	VOLUME	441474.406	3761116.394	203.45
LOCATION L0042994	VOLUME	441473.929	3761191.393	203.94
LOCATION L0042995	VOLUME	441525.522	3761213.327	204.18
LOCATION L0042996	VOLUME	441600.498	3761211.431	204.71
LOCATION L0042997	VOLUME	441610.887	3761148.963	204.45
LOCATION L0042998	VOLUME	441607.974	3761074.020	203.73
LOCATION L0042999	VOLUME	441605.060	3760999.077	202.99
LOCATION L0043000	VOLUME	441602.147	3760924.133	202.45
LOCATION L0043001	VOLUME	441599.233	3760849.190	201.86
LOCATION L0043002	VOLUME	441596.320	3760774.246	201.22
LOCATION L0043003	VOLUME	441593.407	3760699.303	200.18
LOCATION L0043004	VOLUME	441590.493	3760624.360	200.65
LOCATION L0043005	VOLUME	441587.580	3760549.416	200.05
LOCATION L0043006	VOLUME	441633.999	3760522.654	200.23
LOCATION L0043007	VOLUME	441708.991	3760523.795	200.20
LOCATION L0043008	VOLUME	441709.307	3760597.980	200.80
LOCATION L0043009	VOLUME	441708.791	3760672.978	199.72
LOCATION L0043010	VOLUME	441708.275	3760747.977	200.63
LOCATION L0043011	VOLUME	441707.760	3760822.975	201.94
LOCATION L0043012	VOLUME	441707.244	3760897.973	202.25
LOCATION L0043013	VOLUME	441706.729	3760972.971	202.74
LOCATION L0043014	VOLUME	441706.213	3761047.970	203.23
LOCATION L0043015	VOLUME	441705.697	3761122.968	203.63
LOCATION L0043016	VOLUME	441705.182	3761197.966	204.77
LOCATION L0043017	VOLUME	441749.199	3761227.439	204.98
LOCATION L0043018	VOLUME	441803.631	3761205.305	205.07
LOCATION L0043019	VOLUME	441803.685	3761130.305	204.41
LOCATION L0043020	VOLUME	441803.739	3761055.305	203.86
LOCATION L0043021	VOLUME	441803.793	3760980.305	203.24
LOCATION L0043022	VOLUME	441803.847	3760905.305	202.70
LOCATION L0043023	VOLUME	441803.901	3760830.305	202.09
LOCATION L0043024	VOLUME	441803.954	3760755.305	201.54
LOCATION L0043025	VOLUME	441804.008	3760680.305	201.62
LOCATION L0043026	VOLUME	441804.062	3760605.305	200.85
LOCATION L0043027	VOLUME	441804.116	3760530.305	200.09
LOCATION L0043028	VOLUME	441862.798	3760512.563	199.94
LOCATION L0043029	VOLUME	441912.080	3760537.033	200.13
LOCATION L0043030	VOLUME	441911.990	3760612.033	200.91
LOCATION L0043031	VOLUME	441911.899	3760687.033	201.84
LOCATION L0043032	VOLUME	441911.809	3760762.033	201.92
LOCATION L0043033	VOLUME	441911.718	3760837.033	202.45
LOCATION L0043034	VOLUME	441911.628	3760912.033	202.87



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LOCATION L0043035 VOLUME 441911.537 3760987.033 203.27  
 LOCATION L0043036 VOLUME 441911.447 3761062.033 203.73  
 LOCATION L0043037 VOLUME 441911.356 3761137.033 204.26  
 LOCATION L0043038 VOLUME 441911.266 3761212.033 204.91

\*\* End of LINE VOLUME Source ID = SLINE11

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM L0015628	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015629	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015630	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015631	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015632	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015633	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015634	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015635	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015636	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015637	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015638	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015639	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015640	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015641	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015642	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015643	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015644	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015645	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015646	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015647	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015648	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015649	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015650	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015651	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015652	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015653	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015654	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015655	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015656	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015657	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015658	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015659	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015660	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015661	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015662	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015663	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015664	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015665	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015666	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015667	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015668	0.00000008919	3.66	5.58	2.89

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SRCPARAM L0015669	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015670	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015671	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015672	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015673	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015674	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015675	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015676	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015677	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015678	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015680	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015681	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015682	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015683	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015684	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015685	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015686	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015687	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015688	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015689	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015690	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015691	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015692	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015693	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015694	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015695	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015696	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015697	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015698	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015699	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015700	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015701	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015702	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015703	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015704	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015705	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015706	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015707	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015708	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015709	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015710	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015711	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015712	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015713	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015714	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015715	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015716	0.00000008919	3.66	5.58	2.89

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SRCPARAM L0015717	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015718	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015719	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015720	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015721	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015722	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015723	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015724	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015725	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015726	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015727	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015728	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015729	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015730	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015731	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015732	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015733	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015734	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015735	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015737	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015738	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015739	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015741	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015746	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015747	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015748	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015749	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015750	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015751	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015752	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015756	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015759	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015760	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015761	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015762	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015763	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015764	0.00000008919	3.66	5.58	2.89



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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM L0042703	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042704	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042705	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042706	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042707	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042708	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042709	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042710	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042711	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042712	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042713	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042714	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042715	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042716	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042717	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042718	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042719	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042720	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042721	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042722	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042723	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042724	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042725	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042726	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042727	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042728	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042729	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042730	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042731	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042732	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042733	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042734	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042735	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042736	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042737	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042738	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042739	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042740	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042741	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042742	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042743	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042744	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042745	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042746	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042747	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042748	0.00000008949	3.66	5.58	2.89

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SRCPARAM	L0042749	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042750	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042751	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042752	0.00000008949	3.66	5.58	2.89
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SRCPARAM	L0042758	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042759	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042760	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042761	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042762	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042763	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042764	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042765	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042766	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042767	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042768	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042769	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042770	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042771	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042772	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042773	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042774	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042775	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042776	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042777	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042778	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042779	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042780	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042781	0.00000008949	3.66	5.58	2.89

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\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0016324	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016325	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016326	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016327	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016328	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016329	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016330	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016331	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016332	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016333	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016334	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016335	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016336	0.00000003709	3.66	2.33	2.89













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SRCPARAM	L0016577	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016578	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016579	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016580	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016581	0.00000003709	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE5

SRCPARAM	L0064036	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064037	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064038	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064039	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064040	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064041	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064042	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064043	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064044	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064045	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064046	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064047	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064048	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064049	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064050	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064051	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064052	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064053	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064054	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064055	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064056	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064057	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064058	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064059	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064060	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064061	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064062	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064063	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064064	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064065	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064066	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064067	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064068	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064069	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064070	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064071	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064072	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064073	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064074	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064075	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064076	0.00000003704	3.66	2.33	2.89











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SRCPARAM L0064269	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064270	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064271	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064272	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064273	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064274	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064275	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064276	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064277	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064278	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064279	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064280	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064281	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064282	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064283	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064284	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064285	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064286	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064287	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064288	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064289	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064290	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064291	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064292	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064293	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064294	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064295	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064296	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064297	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064298	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064299	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064300	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064301	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064302	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064303	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064304	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064305	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064306	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064307	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064308	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064309	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064310	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064311	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064312	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064313	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064314	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064315	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064316	0.00000003704	3.66	2.33	2.89





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SRCPARAM	L0064413	0.0000003704	3.66	2.33	2.89
**	-----				
**	LINE VOLUME Source ID = SLINE11				
SRCPARAM	L0042930	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042931	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042932	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042933	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042934	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042935	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042936	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042937	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042938	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042939	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042940	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042941	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042942	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042943	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042944	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042945	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042946	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042947	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042948	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042949	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042950	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042951	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042952	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042953	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042954	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042955	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042956	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042957	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042958	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042959	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042960	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042961	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042962	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042963	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042964	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042965	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042966	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042967	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042968	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042969	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042970	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042971	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042972	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042973	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042974	0.0000361468	3.83	34.88	3.56



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SRCPARAM L0043023	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043024	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043025	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043026	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043027	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043028	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043029	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043030	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043031	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043032	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043033	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043034	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043035	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043036	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043037	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043038	0.0000361468	3.83	34.88	3.56

\*\* -----

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING

INCLUDED SOL\_construction\_r.rou

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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ME STARTING

\*\* Surface File Path: C:\Lakes\AERMOD View\SOL\_construction\_r\KCNO\_V9\_ADJU\  
SURFFILE KCNO\_V9\_ADJU\KCNO\_v9.SFC

\*\* Profile File Path: C:\Lakes\AERMOD View\SOL\_construction\_r\KCNO\_V9\_ADJU\  
PROFFILE KCNO\_V9\_ADJU\KCNO\_v9.PFL

SURFDATA 3179 2012

UAIRDATA 3190 2012

PROFBASE 198.0 METERS

ME FINISHED

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\*\* AERMOD Output Pathway

\*\*\*\*\*

SOL\_construction\_r.ADI

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "C:\Lakes\AERMOD

View\SOL\_construction\_r\SOL\_CONSTRUCTION\_R.AD\01H1GALL.PLT" 31

PLOTFILE 24 ALL 1ST "C:\Lakes\AERMOD

View\SOL\_construction\_r\SOL\_CONSTRUCTION\_R.AD\24H1GALL.PLT" 32

PLOTFILE PERIOD ALL "C:\Lakes\AERMOD

View\SOL\_construction\_r\SOL\_CONSTRUCTION\_R.AD\PE00GALL.PLT" 33

SUMMFILE "C:\Lakes\AERMOD View\SOL\_construction\_r\SOL\_construction\_r.sum"

OU FINISHED

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\*\* Project Parameters

\*\*\*\*\*

\*\* PROJCTN CoordinateSystemUTM

\*\* DESCPTN UTM: Universal Transverse Mercator

\*\* DATUM World Geodetic System 1984

\*\* DTMRGN Global Definition

\*\* UNITS m

\*\* ZONE 11

\*\* ZONEINX 0

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SOL\_construction\_r.ADO

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\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.9.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 3/8/2021

\*\* File: C:\Lakes\AERMOD View\SOL\_construction\_r\SOL\_construction\_r.ADI

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\*\* AERMOD Control Pathway

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CO STARTING

TITLEONE Construction

MODELOPT DFAULT CONC

AVERTIME 1 24 PERIOD

URBANOPT 2035210 San\_Bernardino\_County

POLLUTID PM\_10

RUNORNOT RUN

ERRORFIL SOL\_construction\_r.err

CO FINISHED

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\*\* AERMOD Source Pathway

\*\*\*\*\*

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\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000165

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439897.910, 3762688.093, 217.36, 3.66, 5.58

\*\* 439897.649, 3762632.423, 216.86, 3.66, 5.58



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\*\* 439900.113, 3762370.124, 213.55, 3.66, 5.58  
 \*\* 439898.053, 3762075.508, 210.11, 3.66, 5.58  
 \*\* 439895.792, 3761276.665, 202.47, 3.66, 5.58  
 \*\* 439895.843, 3760467.600, 193.65, 3.66, 5.58

\*\* -----

LOCATION	VOLUME				
LOCATION L0015628	VOLUME	439897.882	3762682.093	217.46	
LOCATION L0015629	VOLUME	439897.826	3762670.093	217.29	
LOCATION L0015630	VOLUME	439897.770	3762658.093	217.15	
LOCATION L0015631	VOLUME	439897.713	3762646.093	217.01	
LOCATION L0015632	VOLUME	439897.657	3762634.093	216.85	
LOCATION L0015633	VOLUME	439897.746	3762622.094	216.69	
LOCATION L0015634	VOLUME	439897.859	3762610.094	216.53	
LOCATION L0015635	VOLUME	439897.972	3762598.095	216.38	
LOCATION L0015636	VOLUME	439898.084	3762586.095	216.23	
LOCATION L0015637	VOLUME	439898.197	3762574.096	216.09	
LOCATION L0015638	VOLUME	439898.310	3762562.096	215.96	
LOCATION L0015639	VOLUME	439898.423	3762550.097	215.83	
LOCATION L0015640	VOLUME	439898.535	3762538.097	215.68	
LOCATION L0015641	VOLUME	439898.648	3762526.098	215.54	
LOCATION L0015642	VOLUME	439898.761	3762514.098	215.40	
LOCATION L0015643	VOLUME	439898.873	3762502.099	215.28	
LOCATION L0015644	VOLUME	439898.986	3762490.100	215.15	
LOCATION L0015645	VOLUME	439899.099	3762478.100	215.02	
LOCATION L0015646	VOLUME	439899.212	3762466.101	214.89	
LOCATION L0015647	VOLUME	439899.324	3762454.101	214.75	
LOCATION L0015648	VOLUME	439899.437	3762442.102	214.59	
LOCATION L0015649	VOLUME	439899.550	3762430.102	214.43	
LOCATION L0015650	VOLUME	439899.663	3762418.103	214.28	
LOCATION L0015651	VOLUME	439899.775	3762406.103	214.12	
LOCATION L0015652	VOLUME	439899.888	3762394.104	213.97	
LOCATION L0015653	VOLUME	439900.001	3762382.104	213.81	
LOCATION L0015654	VOLUME	439900.113	3762370.105	213.66	
LOCATION L0015655	VOLUME	439900.029	3762358.105	213.50	
LOCATION L0015656	VOLUME	439899.945	3762346.105	213.33	
LOCATION L0015657	VOLUME	439899.861	3762334.106	213.16	
LOCATION L0015658	VOLUME	439899.778	3762322.106	212.98	
LOCATION L0015659	VOLUME	439899.694	3762310.106	212.80	
LOCATION L0015660	VOLUME	439899.610	3762298.107	212.61	
LOCATION L0015661	VOLUME	439899.526	3762286.107	212.40	
LOCATION L0015662	VOLUME	439899.442	3762274.107	212.20	
LOCATION L0015663	VOLUME	439899.358	3762262.107	212.00	
LOCATION L0015664	VOLUME	439899.274	3762250.108	211.81	
LOCATION L0015665	VOLUME	439899.190	3762238.108	211.62	
LOCATION L0015666	VOLUME	439899.106	3762226.108	211.45	
LOCATION L0015667	VOLUME	439899.022	3762214.109	211.29	
LOCATION L0015668	VOLUME	439898.938	3762202.109	211.14	
LOCATION L0015669	VOLUME	439898.854	3762190.109	211.00	
LOCATION L0015670	VOLUME	439898.771	3762178.110	210.87	

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LOCATION L0015671	VOLUME	439898.687	3762166.110	210.76
LOCATION L0015672	VOLUME	439898.603	3762154.110	210.65
LOCATION L0015673	VOLUME	439898.519	3762142.110	210.56
LOCATION L0015674	VOLUME	439898.435	3762130.111	210.48
LOCATION L0015675	VOLUME	439898.351	3762118.111	210.40
LOCATION L0015676	VOLUME	439898.267	3762106.111	210.32
LOCATION L0015677	VOLUME	439898.183	3762094.112	210.23
LOCATION L0015678	VOLUME	439898.099	3762082.112	210.14
LOCATION L0015679	VOLUME	439898.038	3762070.112	210.04
LOCATION L0015680	VOLUME	439898.004	3762058.112	209.95
LOCATION L0015681	VOLUME	439897.970	3762046.112	209.86
LOCATION L0015682	VOLUME	439897.936	3762034.112	209.77
LOCATION L0015683	VOLUME	439897.902	3762022.112	209.68
LOCATION L0015684	VOLUME	439897.868	3762010.112	209.59
LOCATION L0015685	VOLUME	439897.834	3761998.112	209.50
LOCATION L0015686	VOLUME	439897.800	3761986.112	209.40
LOCATION L0015687	VOLUME	439897.766	3761974.112	209.30
LOCATION L0015688	VOLUME	439897.732	3761962.113	209.19
LOCATION L0015689	VOLUME	439897.698	3761950.113	209.08
LOCATION L0015690	VOLUME	439897.664	3761938.113	208.97
LOCATION L0015691	VOLUME	439897.630	3761926.113	208.87
LOCATION L0015692	VOLUME	439897.596	3761914.113	208.76
LOCATION L0015693	VOLUME	439897.562	3761902.113	208.66
LOCATION L0015694	VOLUME	439897.528	3761890.113	208.55
LOCATION L0015695	VOLUME	439897.494	3761878.113	208.45
LOCATION L0015696	VOLUME	439897.460	3761866.113	208.35
LOCATION L0015697	VOLUME	439897.426	3761854.113	208.25
LOCATION L0015698	VOLUME	439897.392	3761842.113	208.15
LOCATION L0015699	VOLUME	439897.358	3761830.113	208.04
LOCATION L0015700	VOLUME	439897.324	3761818.113	207.94
LOCATION L0015701	VOLUME	439897.291	3761806.113	207.83
LOCATION L0015702	VOLUME	439897.257	3761794.113	207.72
LOCATION L0015703	VOLUME	439897.223	3761782.113	207.62
LOCATION L0015704	VOLUME	439897.189	3761770.113	207.51
LOCATION L0015705	VOLUME	439897.155	3761758.113	207.40
LOCATION L0015706	VOLUME	439897.121	3761746.113	207.29
LOCATION L0015707	VOLUME	439897.087	3761734.113	207.19
LOCATION L0015708	VOLUME	439897.053	3761722.113	207.08
LOCATION L0015709	VOLUME	439897.019	3761710.114	206.99
LOCATION L0015710	VOLUME	439896.985	3761698.114	206.89
LOCATION L0015711	VOLUME	439896.951	3761686.114	206.79
LOCATION L0015712	VOLUME	439896.917	3761674.114	206.69
LOCATION L0015713	VOLUME	439896.883	3761662.114	206.58
LOCATION L0015714	VOLUME	439896.849	3761650.114	206.47
LOCATION L0015715	VOLUME	439896.815	3761638.114	206.38
LOCATION L0015716	VOLUME	439896.781	3761626.114	206.28
LOCATION L0015717	VOLUME	439896.747	3761614.114	206.19
LOCATION L0015718	VOLUME	439896.713	3761602.114	206.10

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LOCATION L0015719	VOLUME	439896.679	3761590.114	206.00
LOCATION L0015720	VOLUME	439896.645	3761578.114	205.88
LOCATION L0015721	VOLUME	439896.611	3761566.114	205.76
LOCATION L0015722	VOLUME	439896.577	3761554.114	205.62
LOCATION L0015723	VOLUME	439896.543	3761542.114	205.48
LOCATION L0015724	VOLUME	439896.509	3761530.114	205.34
LOCATION L0015725	VOLUME	439896.475	3761518.114	205.20
LOCATION L0015726	VOLUME	439896.441	3761506.114	205.06
LOCATION L0015727	VOLUME	439896.407	3761494.114	204.92
LOCATION L0015728	VOLUME	439896.373	3761482.114	204.78
LOCATION L0015729	VOLUME	439896.339	3761470.114	204.64
LOCATION L0015730	VOLUME	439896.305	3761458.115	204.50
LOCATION L0015731	VOLUME	439896.272	3761446.115	204.36
LOCATION L0015732	VOLUME	439896.238	3761434.115	204.23
LOCATION L0015733	VOLUME	439896.204	3761422.115	204.08
LOCATION L0015734	VOLUME	439896.170	3761410.115	203.94
LOCATION L0015735	VOLUME	439896.136	3761398.115	203.79
LOCATION L0015736	VOLUME	439896.102	3761386.115	203.64
LOCATION L0015737	VOLUME	439896.068	3761374.115	203.48
LOCATION L0015738	VOLUME	439896.034	3761362.115	203.34
LOCATION L0015739	VOLUME	439896.000	3761350.115	203.19
LOCATION L0015740	VOLUME	439895.966	3761338.115	203.06
LOCATION L0015741	VOLUME	439895.932	3761326.115	202.93
LOCATION L0015742	VOLUME	439895.898	3761314.115	202.81
LOCATION L0015743	VOLUME	439895.864	3761302.115	202.68
LOCATION L0015744	VOLUME	439895.830	3761290.115	202.55
LOCATION L0015745	VOLUME	439895.796	3761278.115	202.42
LOCATION L0015746	VOLUME	439895.793	3761266.115	202.29
LOCATION L0015747	VOLUME	439895.793	3761254.115	202.16
LOCATION L0015748	VOLUME	439895.794	3761242.115	202.08
LOCATION L0015749	VOLUME	439895.795	3761230.115	202.00
LOCATION L0015750	VOLUME	439895.796	3761218.115	201.91
LOCATION L0015751	VOLUME	439895.796	3761206.115	201.81
LOCATION L0015752	VOLUME	439895.797	3761194.115	201.71
LOCATION L0015753	VOLUME	439895.798	3761182.115	201.59
LOCATION L0015754	VOLUME	439895.799	3761170.115	201.47
LOCATION L0015755	VOLUME	439895.799	3761158.115	201.36
LOCATION L0015756	VOLUME	439895.800	3761146.115	201.23
LOCATION L0015757	VOLUME	439895.801	3761134.115	201.10
LOCATION L0015758	VOLUME	439895.802	3761122.115	200.98
LOCATION L0015759	VOLUME	439895.802	3761110.115	200.86
LOCATION L0015760	VOLUME	439895.803	3761098.115	200.74
LOCATION L0015761	VOLUME	439895.804	3761086.115	200.62
LOCATION L0015762	VOLUME	439895.805	3761074.115	200.49
LOCATION L0015763	VOLUME	439895.805	3761062.115	200.37
LOCATION L0015764	VOLUME	439895.806	3761050.115	200.23
LOCATION L0015765	VOLUME	439895.807	3761038.115	200.09
LOCATION L0015766	VOLUME	439895.808	3761026.115	199.94

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LOCATION L0015767	VOLUME	439895.808	3761014.115	199.79
LOCATION L0015768	VOLUME	439895.809	3761002.115	199.63
LOCATION L0015769	VOLUME	439895.810	3760990.115	199.48
LOCATION L0015770	VOLUME	439895.811	3760978.115	199.32
LOCATION L0015771	VOLUME	439895.811	3760966.115	199.16
LOCATION L0015772	VOLUME	439895.812	3760954.115	199.01
LOCATION L0015773	VOLUME	439895.813	3760942.115	198.86
LOCATION L0015774	VOLUME	439895.814	3760930.115	198.71
LOCATION L0015775	VOLUME	439895.814	3760918.115	198.56
LOCATION L0015776	VOLUME	439895.815	3760906.115	198.41
LOCATION L0015777	VOLUME	439895.816	3760894.115	198.25
LOCATION L0015778	VOLUME	439895.817	3760882.115	198.09
LOCATION L0015779	VOLUME	439895.817	3760870.115	197.94
LOCATION L0015780	VOLUME	439895.818	3760858.115	197.78
LOCATION L0015781	VOLUME	439895.819	3760846.115	197.61
LOCATION L0015782	VOLUME	439895.820	3760834.115	197.43
LOCATION L0015783	VOLUME	439895.820	3760822.115	197.26
LOCATION L0015784	VOLUME	439895.821	3760810.115	197.10
LOCATION L0015785	VOLUME	439895.822	3760798.115	196.95
LOCATION L0015786	VOLUME	439895.823	3760786.115	196.80
LOCATION L0015787	VOLUME	439895.823	3760774.115	196.66
LOCATION L0015788	VOLUME	439895.824	3760762.115	196.52
LOCATION L0015789	VOLUME	439895.825	3760750.115	196.38
LOCATION L0015790	VOLUME	439895.826	3760738.115	196.24
LOCATION L0015791	VOLUME	439895.826	3760726.115	196.11
LOCATION L0015792	VOLUME	439895.827	3760714.115	195.98
LOCATION L0015793	VOLUME	439895.828	3760702.115	195.85
LOCATION L0015794	VOLUME	439895.829	3760690.115	195.74
LOCATION L0015795	VOLUME	439895.829	3760678.115	195.63
LOCATION L0015796	VOLUME	439895.830	3760666.115	195.52
LOCATION L0015797	VOLUME	439895.831	3760654.115	195.42
LOCATION L0015798	VOLUME	439895.832	3760642.115	195.31
LOCATION L0015799	VOLUME	439895.832	3760630.115	195.21
LOCATION L0015800	VOLUME	439895.833	3760618.115	195.11
LOCATION L0015801	VOLUME	439895.834	3760606.115	195.01
LOCATION L0015802	VOLUME	439895.835	3760594.115	194.90
LOCATION L0015803	VOLUME	439895.835	3760582.115	194.79
LOCATION L0015804	VOLUME	439895.836	3760570.115	194.68
LOCATION L0015805	VOLUME	439895.837	3760558.115	194.57
LOCATION L0015806	VOLUME	439895.838	3760546.115	194.46
LOCATION L0015807	VOLUME	439895.838	3760534.115	194.34
LOCATION L0015808	VOLUME	439895.839	3760522.115	194.22
LOCATION L0015809	VOLUME	439895.840	3760510.115	194.10
LOCATION L0015810	VOLUME	439895.841	3760498.115	193.99
LOCATION L0015811	VOLUME	439895.841	3760486.115	193.88
LOCATION L0015812	VOLUME	439895.842	3760474.115	193.77

\*\* End of LINE VOLUME Source ID = SLINE2

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\*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE3  
 \*\* DESCRSRC Euclid Ave - Merrill Ave to SR-71  
 \*\* PREFIX  
 \*\* Length of Side = 12.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 7.07E-06  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 4  
 \*\* 439895.965, 3760471.472, 193.72, 3.66, 5.58  
 \*\* 439894.002, 3760323.327, 192.76, 3.66, 5.58  
 \*\* 439894.252, 3759955.407, 190.38, 3.66, 5.58  
 \*\* 439889.660, 3759518.181, 186.91, 3.66, 5.58

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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0042703	439895.885	3760465.473	193.68	
L0042704	439895.726	3760453.474	193.57	
L0042705	439895.568	3760441.475	193.47	
L0042706	439895.409	3760429.476	193.38	
L0042707	439895.250	3760417.477	193.29	
L0042708	439895.091	3760405.478	193.23	
L0042709	439894.932	3760393.479	193.17	
L0042710	439894.773	3760381.480	193.10	
L0042711	439894.614	3760369.481	193.03	
L0042712	439894.455	3760357.482	192.96	
L0042713	439894.296	3760345.483	192.88	
L0042714	439894.137	3760333.484	192.80	
L0042715	439894.003	3760321.485	192.70	
L0042716	439894.012	3760309.485	192.60	
L0042717	439894.020	3760297.485	192.49	
L0042718	439894.028	3760285.485	192.39	
L0042719	439894.036	3760273.485	192.28	
L0042720	439894.044	3760261.485	192.17	
L0042721	439894.052	3760249.485	192.07	
L0042722	439894.061	3760237.485	191.96	
L0042723	439894.069	3760225.485	191.85	
L0042724	439894.077	3760213.485	191.74	
L0042725	439894.085	3760201.485	191.64	
L0042726	439894.093	3760189.485	191.54	
L0042727	439894.101	3760177.485	191.44	
L0042728	439894.110	3760165.485	191.37	
L0042729	439894.118	3760153.485	191.30	
L0042730	439894.126	3760141.485	191.24	
L0042731	439894.134	3760129.485	191.18	
L0042732	439894.142	3760117.485	191.12	
L0042733	439894.150	3760105.485	191.08	
L0042734	439894.159	3760093.485	191.03	
L0042735	439894.167	3760081.485	190.98	

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LOCATION L0042736	VOLUME	439894.175	3760069.485	190.93
LOCATION L0042737	VOLUME	439894.183	3760057.485	190.88
LOCATION L0042738	VOLUME	439894.191	3760045.485	190.83
LOCATION L0042739	VOLUME	439894.199	3760033.485	190.78
LOCATION L0042740	VOLUME	439894.208	3760021.485	190.72
LOCATION L0042741	VOLUME	439894.216	3760009.485	190.66
LOCATION L0042742	VOLUME	439894.224	3759997.485	190.60
LOCATION L0042743	VOLUME	439894.232	3759985.485	190.53
LOCATION L0042744	VOLUME	439894.240	3759973.485	190.47
LOCATION L0042745	VOLUME	439894.248	3759961.485	190.41
LOCATION L0042746	VOLUME	439894.190	3759949.486	190.34
LOCATION L0042747	VOLUME	439894.064	3759937.486	190.27
LOCATION L0042748	VOLUME	439893.938	3759925.487	190.21
LOCATION L0042749	VOLUME	439893.812	3759913.488	190.14
LOCATION L0042750	VOLUME	439893.686	3759901.488	190.08
LOCATION L0042751	VOLUME	439893.560	3759889.489	190.01
LOCATION L0042752	VOLUME	439893.434	3759877.490	189.93
LOCATION L0042753	VOLUME	439893.308	3759865.490	189.84
LOCATION L0042754	VOLUME	439893.182	3759853.491	189.74
LOCATION L0042755	VOLUME	439893.056	3759841.492	189.64
LOCATION L0042756	VOLUME	439892.930	3759829.492	189.54
LOCATION L0042757	VOLUME	439892.804	3759817.493	189.44
LOCATION L0042758	VOLUME	439892.678	3759805.494	189.33
LOCATION L0042759	VOLUME	439892.552	3759793.494	189.23
LOCATION L0042760	VOLUME	439892.426	3759781.495	189.13
LOCATION L0042761	VOLUME	439892.300	3759769.496	189.02
LOCATION L0042762	VOLUME	439892.174	3759757.496	188.91
LOCATION L0042763	VOLUME	439892.048	3759745.497	188.80
LOCATION L0042764	VOLUME	439891.922	3759733.498	188.69
LOCATION L0042765	VOLUME	439891.795	3759721.498	188.57
LOCATION L0042766	VOLUME	439891.669	3759709.499	188.46
LOCATION L0042767	VOLUME	439891.543	3759697.500	188.36
LOCATION L0042768	VOLUME	439891.417	3759685.500	188.26
LOCATION L0042769	VOLUME	439891.291	3759673.501	188.16
LOCATION L0042770	VOLUME	439891.165	3759661.502	188.07
LOCATION L0042771	VOLUME	439891.039	3759649.502	187.97
LOCATION L0042772	VOLUME	439890.913	3759637.503	187.86
LOCATION L0042773	VOLUME	439890.787	3759625.504	187.75
LOCATION L0042774	VOLUME	439890.661	3759613.504	187.64
LOCATION L0042775	VOLUME	439890.535	3759601.505	187.54
LOCATION L0042776	VOLUME	439890.409	3759589.505	187.44
LOCATION L0042777	VOLUME	439890.283	3759577.506	187.35
LOCATION L0042778	VOLUME	439890.157	3759565.507	187.25
LOCATION L0042779	VOLUME	439890.031	3759553.507	187.15
LOCATION L0042780	VOLUME	439889.905	3759541.508	187.05
LOCATION L0042781	VOLUME	439889.779	3759529.509	186.95

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE4  
 \*\* DESCRSRC Merrill Ave - Euclid Ave to Bon View Ave  
 \*\* PREFIX  
 \*\* Length of Side = 5.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 9.57E-06  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 9  
 \*\* 439898.378, 3760465.490, 193.62, 3.66, 2.33  
 \*\* 439941.655, 3760464.977, 193.56, 3.66, 2.33  
 \*\* 440094.749, 3760465.148, 193.70, 3.66, 2.33  
 \*\* 440334.726, 3760466.319, 194.72, 3.66, 2.33  
 \*\* 440497.808, 3760467.090, 195.14, 3.66, 2.33  
 \*\* 440776.167, 3760467.090, 196.68, 3.66, 2.33  
 \*\* 440921.305, 3760465.961, 197.49, 3.66, 2.33  
 \*\* 441132.695, 3760466.945, 198.64, 3.66, 2.33  
 \*\* 441190.049, 3760466.289, 198.57, 3.66, 2.33  
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LOCATION	VOLUME	439900.877	3760465.460	193.70
L0016324	VOLUME	439900.877	3760465.460	193.70
L0016325	VOLUME	439905.877	3760465.401	193.70
L0016326	VOLUME	439910.877	3760465.342	193.70
L0016327	VOLUME	439915.876	3760465.283	193.71
L0016328	VOLUME	439920.876	3760465.223	193.71
L0016329	VOLUME	439925.876	3760465.164	193.70
L0016330	VOLUME	439930.875	3760465.105	193.68
L0016331	VOLUME	439935.875	3760465.045	193.65
L0016332	VOLUME	439940.875	3760464.986	193.63
L0016333	VOLUME	439945.875	3760464.982	193.61
L0016334	VOLUME	439950.875	3760464.987	193.59
L0016335	VOLUME	439955.875	3760464.993	193.58
L0016336	VOLUME	439960.875	3760464.998	193.58
L0016337	VOLUME	439965.875	3760465.004	193.57
L0016338	VOLUME	439970.875	3760465.010	193.56
L0016339	VOLUME	439975.875	3760465.015	193.56
L0016340	VOLUME	439980.875	3760465.021	193.56
L0016341	VOLUME	439985.875	3760465.026	193.57
L0016342	VOLUME	439990.875	3760465.032	193.57
L0016343	VOLUME	439995.875	3760465.037	193.57
L0016344	VOLUME	440000.875	3760465.043	193.58
L0016345	VOLUME	440005.875	3760465.049	193.58
L0016346	VOLUME	440010.875	3760465.054	193.58
L0016347	VOLUME	440015.875	3760465.060	193.58
L0016348	VOLUME	440020.875	3760465.065	193.58
L0016349	VOLUME	440025.874	3760465.071	193.59
L0016350	VOLUME	440030.874	3760465.077	193.59
L0016351	VOLUME	440035.874	3760465.082	193.59

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LOCATION L0016352	VOLUME	440040.874	3760465.088	193.60
LOCATION L0016353	VOLUME	440045.874	3760465.093	193.60
LOCATION L0016354	VOLUME	440050.874	3760465.099	193.60
LOCATION L0016355	VOLUME	440055.874	3760465.105	193.61
LOCATION L0016356	VOLUME	440060.874	3760465.110	193.62
LOCATION L0016357	VOLUME	440065.874	3760465.116	193.63
LOCATION L0016358	VOLUME	440070.874	3760465.121	193.64
LOCATION L0016359	VOLUME	440075.874	3760465.127	193.65
LOCATION L0016360	VOLUME	440080.874	3760465.132	193.65
LOCATION L0016361	VOLUME	440085.874	3760465.138	193.66
LOCATION L0016362	VOLUME	440090.874	3760465.144	193.66
LOCATION L0016363	VOLUME	440095.874	3760465.153	193.66
LOCATION L0016364	VOLUME	440100.874	3760465.178	193.67
LOCATION L0016365	VOLUME	440105.874	3760465.202	193.68
LOCATION L0016366	VOLUME	440110.874	3760465.227	193.69
LOCATION L0016367	VOLUME	440115.874	3760465.251	193.70
LOCATION L0016368	VOLUME	440120.874	3760465.275	193.72
LOCATION L0016369	VOLUME	440125.874	3760465.300	193.73
LOCATION L0016370	VOLUME	440130.874	3760465.324	193.75
LOCATION L0016371	VOLUME	440135.874	3760465.349	193.78
LOCATION L0016372	VOLUME	440140.874	3760465.373	193.80
LOCATION L0016373	VOLUME	440145.874	3760465.397	193.83
LOCATION L0016374	VOLUME	440150.874	3760465.422	193.86
LOCATION L0016375	VOLUME	440155.874	3760465.446	193.88
LOCATION L0016376	VOLUME	440160.874	3760465.471	193.91
LOCATION L0016377	VOLUME	440165.874	3760465.495	193.94
LOCATION L0016378	VOLUME	440170.874	3760465.520	193.97
LOCATION L0016379	VOLUME	440175.873	3760465.544	194.00
LOCATION L0016380	VOLUME	440180.873	3760465.568	194.02
LOCATION L0016381	VOLUME	440185.873	3760465.593	194.05
LOCATION L0016382	VOLUME	440190.873	3760465.617	194.07
LOCATION L0016383	VOLUME	440195.873	3760465.642	194.10
LOCATION L0016384	VOLUME	440200.873	3760465.666	194.12
LOCATION L0016385	VOLUME	440205.873	3760465.690	194.14
LOCATION L0016386	VOLUME	440210.873	3760465.715	194.16
LOCATION L0016387	VOLUME	440215.873	3760465.739	194.18
LOCATION L0016388	VOLUME	440220.873	3760465.764	194.19
LOCATION L0016389	VOLUME	440225.873	3760465.788	194.21
LOCATION L0016390	VOLUME	440230.873	3760465.812	194.22
LOCATION L0016391	VOLUME	440235.873	3760465.837	194.26
LOCATION L0016392	VOLUME	440240.873	3760465.861	194.30
LOCATION L0016393	VOLUME	440245.873	3760465.886	194.33
LOCATION L0016394	VOLUME	440250.873	3760465.910	194.37
LOCATION L0016395	VOLUME	440255.873	3760465.934	194.41
LOCATION L0016396	VOLUME	440260.872	3760465.959	194.44
LOCATION L0016397	VOLUME	440265.872	3760465.983	194.47
LOCATION L0016398	VOLUME	440270.872	3760466.008	194.50
LOCATION L0016399	VOLUME	440275.872	3760466.032	194.53



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LOCATION L0016400	VOLUME	440280.872	3760466.056	194.56
LOCATION L0016401	VOLUME	440285.872	3760466.081	194.57
LOCATION L0016402	VOLUME	440290.872	3760466.105	194.59
LOCATION L0016403	VOLUME	440295.872	3760466.130	194.60
LOCATION L0016404	VOLUME	440300.872	3760466.154	194.62
LOCATION L0016405	VOLUME	440305.872	3760466.178	194.63
LOCATION L0016406	VOLUME	440310.872	3760466.203	194.65
LOCATION L0016407	VOLUME	440315.872	3760466.227	194.67
LOCATION L0016408	VOLUME	440320.872	3760466.252	194.69
LOCATION L0016409	VOLUME	440325.872	3760466.276	194.71
LOCATION L0016410	VOLUME	440330.872	3760466.300	194.73
LOCATION L0016411	VOLUME	440335.872	3760466.325	194.76
LOCATION L0016412	VOLUME	440340.872	3760466.348	194.78
LOCATION L0016413	VOLUME	440345.871	3760466.372	194.80
LOCATION L0016414	VOLUME	440350.871	3760466.396	194.82
LOCATION L0016415	VOLUME	440355.871	3760466.419	194.84
LOCATION L0016416	VOLUME	440360.871	3760466.443	194.88
LOCATION L0016417	VOLUME	440365.871	3760466.466	194.94
LOCATION L0016418	VOLUME	440370.871	3760466.490	195.00
LOCATION L0016419	VOLUME	440375.871	3760466.514	195.07
LOCATION L0016420	VOLUME	440380.871	3760466.537	195.13
LOCATION L0016421	VOLUME	440385.871	3760466.561	195.19
LOCATION L0016422	VOLUME	440390.871	3760466.585	195.21
LOCATION L0016423	VOLUME	440395.871	3760466.608	195.23
LOCATION L0016424	VOLUME	440400.871	3760466.632	195.25
LOCATION L0016425	VOLUME	440405.871	3760466.656	195.27
LOCATION L0016426	VOLUME	440410.871	3760466.679	195.29
LOCATION L0016427	VOLUME	440415.871	3760466.703	195.24
LOCATION L0016428	VOLUME	440420.871	3760466.726	195.20
LOCATION L0016429	VOLUME	440425.871	3760466.750	195.15
LOCATION L0016430	VOLUME	440430.871	3760466.774	195.11
LOCATION L0016431	VOLUME	440435.870	3760466.797	195.06
LOCATION L0016432	VOLUME	440440.870	3760466.821	195.07
LOCATION L0016433	VOLUME	440445.870	3760466.845	195.08
LOCATION L0016434	VOLUME	440450.870	3760466.868	195.09
LOCATION L0016435	VOLUME	440455.870	3760466.892	195.11
LOCATION L0016436	VOLUME	440460.870	3760466.916	195.12
LOCATION L0016437	VOLUME	440465.870	3760466.939	195.13
LOCATION L0016438	VOLUME	440470.870	3760466.963	195.14
LOCATION L0016439	VOLUME	440475.870	3760466.987	195.15
LOCATION L0016440	VOLUME	440480.870	3760467.010	195.16
LOCATION L0016441	VOLUME	440485.870	3760467.034	195.17
LOCATION L0016442	VOLUME	440490.870	3760467.057	195.18
LOCATION L0016443	VOLUME	440495.870	3760467.081	195.20
LOCATION L0016444	VOLUME	440500.870	3760467.090	195.21
LOCATION L0016445	VOLUME	440505.870	3760467.090	195.22
LOCATION L0016446	VOLUME	440510.870	3760467.090	195.23
LOCATION L0016447	VOLUME	440515.870	3760467.090	195.25

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LOCATION L0016448	VOLUME	440520.870	3760467.090	195.26
LOCATION L0016449	VOLUME	440525.870	3760467.090	195.28
LOCATION L0016450	VOLUME	440530.870	3760467.090	195.29
LOCATION L0016451	VOLUME	440535.870	3760467.090	195.31
LOCATION L0016452	VOLUME	440540.870	3760467.090	195.32
LOCATION L0016453	VOLUME	440545.870	3760467.090	195.34
LOCATION L0016454	VOLUME	440550.870	3760467.090	195.35
LOCATION L0016455	VOLUME	440555.870	3760467.090	195.37
LOCATION L0016456	VOLUME	440560.870	3760467.090	195.38
LOCATION L0016457	VOLUME	440565.870	3760467.090	195.40
LOCATION L0016458	VOLUME	440570.870	3760467.090	195.42
LOCATION L0016459	VOLUME	440575.870	3760467.090	195.43
LOCATION L0016460	VOLUME	440580.870	3760467.090	195.45
LOCATION L0016461	VOLUME	440585.870	3760467.090	195.47
LOCATION L0016462	VOLUME	440590.870	3760467.090	195.49
LOCATION L0016463	VOLUME	440595.870	3760467.090	195.51
LOCATION L0016464	VOLUME	440600.870	3760467.090	195.52
LOCATION L0016465	VOLUME	440605.870	3760467.090	195.54
LOCATION L0016466	VOLUME	440610.870	3760467.090	195.55
LOCATION L0016467	VOLUME	440615.870	3760467.090	195.57
LOCATION L0016468	VOLUME	440620.870	3760467.090	195.58
LOCATION L0016469	VOLUME	440625.870	3760467.090	195.60
LOCATION L0016470	VOLUME	440630.870	3760467.090	195.61
LOCATION L0016471	VOLUME	440635.870	3760467.090	195.63
LOCATION L0016472	VOLUME	440640.870	3760467.090	195.64
LOCATION L0016473	VOLUME	440645.870	3760467.090	195.66
LOCATION L0016474	VOLUME	440650.870	3760467.090	195.68
LOCATION L0016475	VOLUME	440655.870	3760467.090	195.70
LOCATION L0016476	VOLUME	440660.870	3760467.090	195.72
LOCATION L0016477	VOLUME	440665.870	3760467.090	195.73
LOCATION L0016478	VOLUME	440670.870	3760467.090	195.76
LOCATION L0016479	VOLUME	440675.870	3760467.090	195.78
LOCATION L0016480	VOLUME	440680.870	3760467.090	195.81
LOCATION L0016481	VOLUME	440685.870	3760467.090	195.83
LOCATION L0016482	VOLUME	440690.870	3760467.090	195.85
LOCATION L0016483	VOLUME	440695.870	3760467.090	195.88
LOCATION L0016484	VOLUME	440700.870	3760467.090	195.90
LOCATION L0016485	VOLUME	440705.870	3760467.090	195.93
LOCATION L0016486	VOLUME	440710.870	3760467.090	195.95
LOCATION L0016487	VOLUME	440715.870	3760467.090	195.98
LOCATION L0016488	VOLUME	440720.870	3760467.090	196.01
LOCATION L0016489	VOLUME	440725.870	3760467.090	196.05
LOCATION L0016490	VOLUME	440730.870	3760467.090	196.09
LOCATION L0016491	VOLUME	440735.870	3760467.090	196.13
LOCATION L0016492	VOLUME	440740.870	3760467.090	196.17
LOCATION L0016493	VOLUME	440745.870	3760467.090	196.23
LOCATION L0016494	VOLUME	440750.870	3760467.090	196.31
LOCATION L0016495	VOLUME	440755.870	3760467.090	196.38

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LOCATION L0016496	VOLUME	440760.870	3760467.090	196.46
LOCATION L0016497	VOLUME	440765.870	3760467.090	196.54
LOCATION L0016498	VOLUME	440770.870	3760467.090	196.61
LOCATION L0016499	VOLUME	440775.870	3760467.090	196.63
LOCATION L0016500	VOLUME	440780.870	3760467.054	196.65
LOCATION L0016501	VOLUME	440785.869	3760467.015	196.67
LOCATION L0016502	VOLUME	440790.869	3760466.976	196.69
LOCATION L0016503	VOLUME	440795.869	3760466.937	196.71
LOCATION L0016504	VOLUME	440800.869	3760466.898	196.69
LOCATION L0016505	VOLUME	440805.869	3760466.859	196.68
LOCATION L0016506	VOLUME	440810.869	3760466.820	196.66
LOCATION L0016507	VOLUME	440815.869	3760466.781	196.65
LOCATION L0016508	VOLUME	440820.868	3760466.743	196.63
LOCATION L0016509	VOLUME	440825.868	3760466.704	196.66
LOCATION L0016510	VOLUME	440830.868	3760466.665	196.69
LOCATION L0016511	VOLUME	440835.868	3760466.626	196.72
LOCATION L0016512	VOLUME	440840.868	3760466.587	196.75
LOCATION L0016513	VOLUME	440845.868	3760466.548	196.78
LOCATION L0016514	VOLUME	440850.868	3760466.509	196.81
LOCATION L0016515	VOLUME	440855.867	3760466.470	196.85
LOCATION L0016516	VOLUME	440860.867	3760466.431	196.89
LOCATION L0016517	VOLUME	440865.867	3760466.393	196.93
LOCATION L0016518	VOLUME	440870.867	3760466.354	196.97
LOCATION L0016519	VOLUME	440875.867	3760466.315	197.02
LOCATION L0016520	VOLUME	440880.867	3760466.276	197.06
LOCATION L0016521	VOLUME	440885.866	3760466.237	197.11
LOCATION L0016522	VOLUME	440890.866	3760466.198	197.16
LOCATION L0016523	VOLUME	440895.866	3760466.159	197.21
LOCATION L0016524	VOLUME	440900.866	3760466.120	197.26
LOCATION L0016525	VOLUME	440905.866	3760466.081	197.31
LOCATION L0016526	VOLUME	440910.866	3760466.043	197.36
LOCATION L0016527	VOLUME	440915.866	3760466.004	197.40
LOCATION L0016528	VOLUME	440920.865	3760465.965	197.45
LOCATION L0016529	VOLUME	440925.865	3760465.983	197.49
LOCATION L0016530	VOLUME	440930.865	3760466.006	197.51
LOCATION L0016531	VOLUME	440935.865	3760466.029	197.52
LOCATION L0016532	VOLUME	440940.865	3760466.052	197.54
LOCATION L0016533	VOLUME	440945.865	3760466.076	197.56
LOCATION L0016534	VOLUME	440950.865	3760466.099	197.58
LOCATION L0016535	VOLUME	440955.865	3760466.122	197.58
LOCATION L0016536	VOLUME	440960.865	3760466.145	197.59
LOCATION L0016537	VOLUME	440965.865	3760466.169	197.60
LOCATION L0016538	VOLUME	440970.865	3760466.192	197.61
LOCATION L0016539	VOLUME	440975.865	3760466.215	197.63
LOCATION L0016540	VOLUME	440980.865	3760466.238	197.65
LOCATION L0016541	VOLUME	440985.865	3760466.262	197.68
LOCATION L0016542	VOLUME	440990.865	3760466.285	197.71
LOCATION L0016543	VOLUME	440995.865	3760466.308	197.73

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LOCATION L0016544	VOLUME	441000.865	3760466.331	197.76
LOCATION L0016545	VOLUME	441005.864	3760466.355	197.79
LOCATION L0016546	VOLUME	441010.864	3760466.378	197.82
LOCATION L0016547	VOLUME	441015.864	3760466.401	197.85
LOCATION L0016548	VOLUME	441020.864	3760466.424	197.88
LOCATION L0016549	VOLUME	441025.864	3760466.448	197.91
LOCATION L0016550	VOLUME	441030.864	3760466.471	197.94
LOCATION L0016551	VOLUME	441035.864	3760466.494	197.97
LOCATION L0016552	VOLUME	441040.864	3760466.518	198.00
LOCATION L0016553	VOLUME	441045.864	3760466.541	198.03
LOCATION L0016554	VOLUME	441050.864	3760466.564	198.06
LOCATION L0016555	VOLUME	441055.864	3760466.587	198.09
LOCATION L0016556	VOLUME	441060.864	3760466.611	198.13
LOCATION L0016557	VOLUME	441065.864	3760466.634	198.17
LOCATION L0016558	VOLUME	441070.864	3760466.657	198.21
LOCATION L0016559	VOLUME	441075.864	3760466.680	198.25
LOCATION L0016560	VOLUME	441080.864	3760466.704	198.29
LOCATION L0016561	VOLUME	441085.864	3760466.727	198.32
LOCATION L0016562	VOLUME	441090.864	3760466.750	198.36
LOCATION L0016563	VOLUME	441095.863	3760466.773	198.40
LOCATION L0016564	VOLUME	441100.863	3760466.797	198.43
LOCATION L0016565	VOLUME	441105.863	3760466.820	198.46
LOCATION L0016566	VOLUME	441110.863	3760466.843	198.47
LOCATION L0016567	VOLUME	441115.863	3760466.866	198.49
LOCATION L0016568	VOLUME	441120.863	3760466.890	198.50
LOCATION L0016569	VOLUME	441125.863	3760466.913	198.52
LOCATION L0016570	VOLUME	441130.863	3760466.936	198.53
LOCATION L0016571	VOLUME	441135.863	3760466.908	198.54
LOCATION L0016572	VOLUME	441140.863	3760466.851	198.54
LOCATION L0016573	VOLUME	441145.862	3760466.794	198.55
LOCATION L0016574	VOLUME	441150.862	3760466.737	198.55
LOCATION L0016575	VOLUME	441155.862	3760466.680	198.56
LOCATION L0016576	VOLUME	441160.861	3760466.623	198.55
LOCATION L0016577	VOLUME	441165.861	3760466.566	198.55
LOCATION L0016578	VOLUME	441170.861	3760466.508	198.55
LOCATION L0016579	VOLUME	441175.860	3760466.451	198.55
LOCATION L0016580	VOLUME	441180.860	3760466.394	198.56
LOCATION L0016581	VOLUME	441185.860	3760466.337	198.65

\*\* End of LINE VOLUME Source ID = SLINE4

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Merrill Ave - Archibald Ave to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000014

\*\* Vertical Dimension = 6.22

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\*\* SZINIT = 2.89

\*\* Nodes = 9

\*\* 441994.232, 3760466.531, 199.91, 3.66, 2.33  
 \*\* 442337.340, 3760467.379, 200.89, 3.66, 2.33  
 \*\* 442503.283, 3760469.894, 201.12, 3.66, 2.33  
 \*\* 442854.597, 3760466.401, 200.93, 3.66, 2.33  
 \*\* 442983.505, 3760465.947, 201.47, 3.66, 2.33  
 \*\* 443292.157, 3760466.401, 202.70, 3.66, 2.33  
 \*\* 443593.547, 3760465.947, 203.28, 3.66, 2.33  
 \*\* 443681.150, 3760465.947, 203.44, 3.66, 2.33  
 \*\* 443881.774, 3760467.309, 204.27, 3.66, 2.33

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LOCATION L0064036      VOLUME  441996.732 3760466.537 199.87
LOCATION L0064037      VOLUME  442001.732 3760466.550 199.84
LOCATION L0064038      VOLUME  442006.732 3760466.562 199.92
LOCATION L0064039      VOLUME  442011.732 3760466.575 200.01
LOCATION L0064040      VOLUME  442016.732 3760466.587 200.10
LOCATION L0064041      VOLUME  442021.732 3760466.599 200.19
LOCATION L0064042      VOLUME  442026.732 3760466.612 200.28
LOCATION L0064043      VOLUME  442031.732 3760466.624 200.30
LOCATION L0064044      VOLUME  442036.732 3760466.636 200.31
LOCATION L0064045      VOLUME  442041.732 3760466.649 200.32
LOCATION L0064046      VOLUME  442046.732 3760466.661 200.34
LOCATION L0064047      VOLUME  442051.732 3760466.673 200.35
LOCATION L0064048      VOLUME  442056.732 3760466.686 200.36
LOCATION L0064049      VOLUME  442061.732 3760466.698 200.36
LOCATION L0064050      VOLUME  442066.732 3760466.710 200.36
LOCATION L0064051      VOLUME  442071.732 3760466.723 200.36
LOCATION L0064052      VOLUME  442076.732 3760466.735 200.36
LOCATION L0064053      VOLUME  442081.732 3760466.747 200.36
LOCATION L0064054      VOLUME  442086.732 3760466.760 200.36
LOCATION L0064055      VOLUME  442091.732 3760466.772 200.36
LOCATION L0064056      VOLUME  442096.732 3760466.784 200.35
LOCATION L0064057      VOLUME  442101.732 3760466.797 200.35
LOCATION L0064058      VOLUME  442106.732 3760466.809 200.35
LOCATION L0064059      VOLUME  442111.732 3760466.822 200.34
LOCATION L0064060      VOLUME  442116.732 3760466.834 200.34
LOCATION L0064061      VOLUME  442121.732 3760466.846 200.34
LOCATION L0064062      VOLUME  442126.732 3760466.859 200.33
LOCATION L0064063      VOLUME  442131.732 3760466.871 200.33
LOCATION L0064064      VOLUME  442136.732 3760466.883 200.34
LOCATION L0064065      VOLUME  442141.732 3760466.896 200.34
LOCATION L0064066      VOLUME  442146.732 3760466.908 200.34
LOCATION L0064067      VOLUME  442151.732 3760466.920 200.35
LOCATION L0064068      VOLUME  442156.732 3760466.933 200.35
LOCATION L0064069      VOLUME  442161.732 3760466.945 200.36
LOCATION L0064070      VOLUME  442166.732 3760466.957 200.36
LOCATION L0064071      VOLUME  442171.732 3760466.970 200.37
  
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LOCATION L0064072	VOLUME	442176.732	3760466.982	200.37
LOCATION L0064073	VOLUME	442181.732	3760466.994	200.38
LOCATION L0064074	VOLUME	442186.732	3760467.007	200.38
LOCATION L0064075	VOLUME	442191.732	3760467.019	200.38
LOCATION L0064076	VOLUME	442196.732	3760467.031	200.39
LOCATION L0064077	VOLUME	442201.732	3760467.044	200.39
LOCATION L0064078	VOLUME	442206.732	3760467.056	200.39
LOCATION L0064079	VOLUME	442211.732	3760467.069	200.40
LOCATION L0064080	VOLUME	442216.732	3760467.081	200.41
LOCATION L0064081	VOLUME	442221.732	3760467.093	200.42
LOCATION L0064082	VOLUME	442226.732	3760467.106	200.43
LOCATION L0064083	VOLUME	442231.732	3760467.118	200.44
LOCATION L0064084	VOLUME	442236.732	3760467.130	200.45
LOCATION L0064085	VOLUME	442241.732	3760467.143	200.47
LOCATION L0064086	VOLUME	442246.732	3760467.155	200.49
LOCATION L0064087	VOLUME	442251.731	3760467.167	200.51
LOCATION L0064088	VOLUME	442256.731	3760467.180	200.53
LOCATION L0064089	VOLUME	442261.731	3760467.192	200.55
LOCATION L0064090	VOLUME	442266.731	3760467.204	200.57
LOCATION L0064091	VOLUME	442271.731	3760467.217	200.59
LOCATION L0064092	VOLUME	442276.731	3760467.229	200.61
LOCATION L0064093	VOLUME	442281.731	3760467.241	200.63
LOCATION L0064094	VOLUME	442286.731	3760467.254	200.65
LOCATION L0064095	VOLUME	442291.731	3760467.266	200.66
LOCATION L0064096	VOLUME	442296.731	3760467.278	200.68
LOCATION L0064097	VOLUME	442301.731	3760467.291	200.69
LOCATION L0064098	VOLUME	442306.731	3760467.303	200.70
LOCATION L0064099	VOLUME	442311.731	3760467.316	200.73
LOCATION L0064100	VOLUME	442316.731	3760467.328	200.76
LOCATION L0064101	VOLUME	442321.731	3760467.340	200.79
LOCATION L0064102	VOLUME	442326.731	3760467.353	200.82
LOCATION L0064103	VOLUME	442331.731	3760467.365	200.85
LOCATION L0064104	VOLUME	442336.731	3760467.377	200.88
LOCATION L0064105	VOLUME	442341.731	3760467.445	200.90
LOCATION L0064106	VOLUME	442346.730	3760467.521	200.93
LOCATION L0064107	VOLUME	442351.730	3760467.597	200.96
LOCATION L0064108	VOLUME	442356.729	3760467.673	200.98
LOCATION L0064109	VOLUME	442361.728	3760467.748	201.00
LOCATION L0064110	VOLUME	442366.728	3760467.824	201.00
LOCATION L0064111	VOLUME	442371.727	3760467.900	201.00
LOCATION L0064112	VOLUME	442376.727	3760467.976	200.99
LOCATION L0064113	VOLUME	442381.726	3760468.052	200.99
LOCATION L0064114	VOLUME	442386.726	3760468.127	200.99
LOCATION L0064115	VOLUME	442391.725	3760468.203	201.01
LOCATION L0064116	VOLUME	442396.724	3760468.279	201.04
LOCATION L0064117	VOLUME	442401.724	3760468.355	201.06
LOCATION L0064118	VOLUME	442406.723	3760468.431	201.09
LOCATION L0064119	VOLUME	442411.723	3760468.506	201.11

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LOCATION L0064120	VOLUME	442416.722	3760468.582	201.13
LOCATION L0064121	VOLUME	442421.722	3760468.658	201.14
LOCATION L0064122	VOLUME	442426.721	3760468.734	201.15
LOCATION L0064123	VOLUME	442431.720	3760468.810	201.17
LOCATION L0064124	VOLUME	442436.720	3760468.885	201.18
LOCATION L0064125	VOLUME	442441.719	3760468.961	201.18
LOCATION L0064126	VOLUME	442446.719	3760469.037	201.18
LOCATION L0064127	VOLUME	442451.718	3760469.113	201.17
LOCATION L0064128	VOLUME	442456.718	3760469.189	201.17
LOCATION L0064129	VOLUME	442461.717	3760469.264	201.17
LOCATION L0064130	VOLUME	442466.716	3760469.340	201.16
LOCATION L0064131	VOLUME	442471.716	3760469.416	201.16
LOCATION L0064132	VOLUME	442476.715	3760469.492	201.15
LOCATION L0064133	VOLUME	442481.715	3760469.567	201.14
LOCATION L0064134	VOLUME	442486.714	3760469.643	201.13
LOCATION L0064135	VOLUME	442491.713	3760469.719	201.13
LOCATION L0064136	VOLUME	442496.713	3760469.795	201.12
LOCATION L0064137	VOLUME	442501.712	3760469.871	201.11
LOCATION L0064138	VOLUME	442506.712	3760469.860	201.11
LOCATION L0064139	VOLUME	442511.712	3760469.811	201.10
LOCATION L0064140	VOLUME	442516.712	3760469.761	201.09
LOCATION L0064141	VOLUME	442521.711	3760469.711	201.08
LOCATION L0064142	VOLUME	442526.711	3760469.662	201.07
LOCATION L0064143	VOLUME	442531.711	3760469.612	201.06
LOCATION L0064144	VOLUME	442536.711	3760469.562	201.05
LOCATION L0064145	VOLUME	442541.710	3760469.512	201.04
LOCATION L0064146	VOLUME	442546.710	3760469.463	201.03
LOCATION L0064147	VOLUME	442551.710	3760469.413	201.02
LOCATION L0064148	VOLUME	442556.710	3760469.363	201.01
LOCATION L0064149	VOLUME	442561.709	3760469.314	201.00
LOCATION L0064150	VOLUME	442566.709	3760469.264	200.99
LOCATION L0064151	VOLUME	442571.709	3760469.214	200.97
LOCATION L0064152	VOLUME	442576.709	3760469.164	200.96
LOCATION L0064153	VOLUME	442581.708	3760469.115	200.94
LOCATION L0064154	VOLUME	442586.708	3760469.065	200.93
LOCATION L0064155	VOLUME	442591.708	3760469.015	200.91
LOCATION L0064156	VOLUME	442596.708	3760468.966	200.91
LOCATION L0064157	VOLUME	442601.707	3760468.916	200.91
LOCATION L0064158	VOLUME	442606.707	3760468.866	200.90
LOCATION L0064159	VOLUME	442611.707	3760468.816	200.90
LOCATION L0064160	VOLUME	442616.707	3760468.767	200.90
LOCATION L0064161	VOLUME	442621.706	3760468.717	200.90
LOCATION L0064162	VOLUME	442626.706	3760468.667	200.89
LOCATION L0064163	VOLUME	442631.706	3760468.618	200.89
LOCATION L0064164	VOLUME	442636.706	3760468.568	200.89
LOCATION L0064165	VOLUME	442641.705	3760468.518	200.88
LOCATION L0064166	VOLUME	442646.705	3760468.468	200.88
LOCATION L0064167	VOLUME	442651.705	3760468.419	200.87

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LOCATION L0064168	VOLUME	442656.705	3760468.369	200.87
LOCATION L0064169	VOLUME	442661.704	3760468.319	200.86
LOCATION L0064170	VOLUME	442666.704	3760468.270	200.85
LOCATION L0064171	VOLUME	442671.704	3760468.220	200.85
LOCATION L0064172	VOLUME	442676.704	3760468.170	200.84
LOCATION L0064173	VOLUME	442681.703	3760468.120	200.83
LOCATION L0064174	VOLUME	442686.703	3760468.071	200.83
LOCATION L0064175	VOLUME	442691.703	3760468.021	200.82
LOCATION L0064176	VOLUME	442696.703	3760467.971	200.82
LOCATION L0064177	VOLUME	442701.702	3760467.922	200.82
LOCATION L0064178	VOLUME	442706.702	3760467.872	200.83
LOCATION L0064179	VOLUME	442711.702	3760467.822	200.83
LOCATION L0064180	VOLUME	442716.702	3760467.772	200.83
LOCATION L0064181	VOLUME	442721.701	3760467.723	200.84
LOCATION L0064182	VOLUME	442726.701	3760467.673	200.85
LOCATION L0064183	VOLUME	442731.701	3760467.623	200.86
LOCATION L0064184	VOLUME	442736.701	3760467.574	200.87
LOCATION L0064185	VOLUME	442741.700	3760467.524	200.88
LOCATION L0064186	VOLUME	442746.700	3760467.474	200.89
LOCATION L0064187	VOLUME	442751.700	3760467.424	200.87
LOCATION L0064188	VOLUME	442756.700	3760467.375	200.86
LOCATION L0064189	VOLUME	442761.699	3760467.325	200.85
LOCATION L0064190	VOLUME	442766.699	3760467.275	200.84
LOCATION L0064191	VOLUME	442771.699	3760467.226	200.83
LOCATION L0064192	VOLUME	442776.699	3760467.176	200.83
LOCATION L0064193	VOLUME	442781.698	3760467.126	200.83
LOCATION L0064194	VOLUME	442786.698	3760467.076	200.83
LOCATION L0064195	VOLUME	442791.698	3760467.027	200.83
LOCATION L0064196	VOLUME	442796.698	3760466.977	200.83
LOCATION L0064197	VOLUME	442801.697	3760466.927	200.82
LOCATION L0064198	VOLUME	442806.697	3760466.878	200.82
LOCATION L0064199	VOLUME	442811.697	3760466.828	200.81
LOCATION L0064200	VOLUME	442816.697	3760466.778	200.81
LOCATION L0064201	VOLUME	442821.696	3760466.728	200.81
LOCATION L0064202	VOLUME	442826.696	3760466.679	200.82
LOCATION L0064203	VOLUME	442831.696	3760466.629	200.84
LOCATION L0064204	VOLUME	442836.696	3760466.579	200.87
LOCATION L0064205	VOLUME	442841.695	3760466.530	200.89
LOCATION L0064206	VOLUME	442846.695	3760466.480	200.91
LOCATION L0064207	VOLUME	442851.695	3760466.430	200.93
LOCATION L0064208	VOLUME	442856.695	3760466.394	200.96
LOCATION L0064209	VOLUME	442861.695	3760466.376	200.98
LOCATION L0064210	VOLUME	442866.695	3760466.359	201.01
LOCATION L0064211	VOLUME	442871.695	3760466.341	201.04
LOCATION L0064212	VOLUME	442876.695	3760466.323	201.05
LOCATION L0064213	VOLUME	442881.695	3760466.306	201.07
LOCATION L0064214	VOLUME	442886.695	3760466.288	201.08
LOCATION L0064215	VOLUME	442891.695	3760466.271	201.09



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LOCATION L0064216	VOLUME	442896.695	3760466.253	201.10
LOCATION L0064217	VOLUME	442901.695	3760466.235	201.11
LOCATION L0064218	VOLUME	442906.694	3760466.218	201.13
LOCATION L0064219	VOLUME	442911.694	3760466.200	201.15
LOCATION L0064220	VOLUME	442916.694	3760466.183	201.18
LOCATION L0064221	VOLUME	442921.694	3760466.165	201.20
LOCATION L0064222	VOLUME	442926.694	3760466.147	201.22
LOCATION L0064223	VOLUME	442931.694	3760466.130	201.24
LOCATION L0064224	VOLUME	442936.694	3760466.112	201.26
LOCATION L0064225	VOLUME	442941.694	3760466.095	201.29
LOCATION L0064226	VOLUME	442946.694	3760466.077	201.31
LOCATION L0064227	VOLUME	442951.694	3760466.059	201.33
LOCATION L0064228	VOLUME	442956.694	3760466.042	201.35
LOCATION L0064229	VOLUME	442961.694	3760466.024	201.38
LOCATION L0064230	VOLUME	442966.694	3760466.007	201.40
LOCATION L0064231	VOLUME	442971.694	3760465.989	201.42
LOCATION L0064232	VOLUME	442976.694	3760465.971	201.44
LOCATION L0064233	VOLUME	442981.694	3760465.954	201.50
LOCATION L0064234	VOLUME	442986.694	3760465.952	201.56
LOCATION L0064235	VOLUME	442991.694	3760465.959	201.62
LOCATION L0064236	VOLUME	442996.694	3760465.967	201.68
LOCATION L0064237	VOLUME	443001.694	3760465.974	201.75
LOCATION L0064238	VOLUME	443006.694	3760465.981	201.76
LOCATION L0064239	VOLUME	443011.694	3760465.989	201.77
LOCATION L0064240	VOLUME	443016.694	3760465.996	201.78
LOCATION L0064241	VOLUME	443021.694	3760466.004	201.78
LOCATION L0064242	VOLUME	443026.694	3760466.011	201.79
LOCATION L0064243	VOLUME	443031.694	3760466.018	201.78
LOCATION L0064244	VOLUME	443036.694	3760466.026	201.77
LOCATION L0064245	VOLUME	443041.694	3760466.033	201.75
LOCATION L0064246	VOLUME	443046.694	3760466.040	201.74
LOCATION L0064247	VOLUME	443051.694	3760466.048	201.72
LOCATION L0064248	VOLUME	443056.694	3760466.055	201.72
LOCATION L0064249	VOLUME	443061.694	3760466.062	201.73
LOCATION L0064250	VOLUME	443066.694	3760466.070	201.74
LOCATION L0064251	VOLUME	443071.694	3760466.077	201.75
LOCATION L0064252	VOLUME	443076.694	3760466.084	201.75
LOCATION L0064253	VOLUME	443081.694	3760466.092	201.76
LOCATION L0064254	VOLUME	443086.694	3760466.099	201.78
LOCATION L0064255	VOLUME	443091.694	3760466.106	201.79
LOCATION L0064256	VOLUME	443096.694	3760466.114	201.80
LOCATION L0064257	VOLUME	443101.694	3760466.121	201.81
LOCATION L0064258	VOLUME	443106.694	3760466.129	201.83
LOCATION L0064259	VOLUME	443111.694	3760466.136	201.84
LOCATION L0064260	VOLUME	443116.694	3760466.143	201.86
LOCATION L0064261	VOLUME	443121.694	3760466.151	201.88
LOCATION L0064262	VOLUME	443126.694	3760466.158	201.89
LOCATION L0064263	VOLUME	443131.694	3760466.165	201.91

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LOCATION L0064264	VOLUME	443136.694	3760466.173	201.93
LOCATION L0064265	VOLUME	443141.694	3760466.180	201.96
LOCATION L0064266	VOLUME	443146.694	3760466.187	201.98
LOCATION L0064267	VOLUME	443151.694	3760466.195	202.00
LOCATION L0064268	VOLUME	443156.694	3760466.202	202.03
LOCATION L0064269	VOLUME	443161.694	3760466.209	202.08
LOCATION L0064270	VOLUME	443166.694	3760466.217	202.12
LOCATION L0064271	VOLUME	443171.694	3760466.224	202.17
LOCATION L0064272	VOLUME	443176.694	3760466.231	202.21
LOCATION L0064273	VOLUME	443181.694	3760466.239	202.26
LOCATION L0064274	VOLUME	443186.694	3760466.246	202.34
LOCATION L0064275	VOLUME	443191.694	3760466.254	202.42
LOCATION L0064276	VOLUME	443196.694	3760466.261	202.50
LOCATION L0064277	VOLUME	443201.694	3760466.268	202.58
LOCATION L0064278	VOLUME	443206.694	3760466.276	202.66
LOCATION L0064279	VOLUME	443211.694	3760466.283	202.69
LOCATION L0064280	VOLUME	443216.694	3760466.290	202.71
LOCATION L0064281	VOLUME	443221.694	3760466.298	202.73
LOCATION L0064282	VOLUME	443226.694	3760466.305	202.75
LOCATION L0064283	VOLUME	443231.694	3760466.312	202.76
LOCATION L0064284	VOLUME	443236.694	3760466.320	202.77
LOCATION L0064285	VOLUME	443241.694	3760466.327	202.77
LOCATION L0064286	VOLUME	443246.694	3760466.334	202.76
LOCATION L0064287	VOLUME	443251.694	3760466.342	202.76
LOCATION L0064288	VOLUME	443256.694	3760466.349	202.76
LOCATION L0064289	VOLUME	443261.694	3760466.356	202.77
LOCATION L0064290	VOLUME	443266.694	3760466.364	202.78
LOCATION L0064291	VOLUME	443271.694	3760466.371	202.80
LOCATION L0064292	VOLUME	443276.694	3760466.379	202.82
LOCATION L0064293	VOLUME	443281.694	3760466.386	202.83
LOCATION L0064294	VOLUME	443286.694	3760466.393	202.84
LOCATION L0064295	VOLUME	443291.694	3760466.401	202.85
LOCATION L0064296	VOLUME	443296.694	3760466.394	202.86
LOCATION L0064297	VOLUME	443301.694	3760466.387	202.86
LOCATION L0064298	VOLUME	443306.694	3760466.379	202.87
LOCATION L0064299	VOLUME	443311.694	3760466.372	202.89
LOCATION L0064300	VOLUME	443316.694	3760466.364	202.91
LOCATION L0064301	VOLUME	443321.694	3760466.357	202.94
LOCATION L0064302	VOLUME	443326.694	3760466.349	202.97
LOCATION L0064303	VOLUME	443331.694	3760466.342	202.99
LOCATION L0064304	VOLUME	443336.694	3760466.334	203.02
LOCATION L0064305	VOLUME	443341.694	3760466.327	203.03
LOCATION L0064306	VOLUME	443346.694	3760466.319	203.03
LOCATION L0064307	VOLUME	443351.694	3760466.312	203.04
LOCATION L0064308	VOLUME	443356.694	3760466.304	203.05
LOCATION L0064309	VOLUME	443361.694	3760466.297	203.06
LOCATION L0064310	VOLUME	443366.694	3760466.289	203.08
LOCATION L0064311	VOLUME	443371.694	3760466.281	203.10

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LOCATION L0064312	VOLUME	443376.694	3760466.274	203.12
LOCATION L0064313	VOLUME	443381.694	3760466.266	203.14
LOCATION L0064314	VOLUME	443386.694	3760466.259	203.17
LOCATION L0064315	VOLUME	443391.694	3760466.251	203.17
LOCATION L0064316	VOLUME	443396.694	3760466.244	203.17
LOCATION L0064317	VOLUME	443401.694	3760466.236	203.17
LOCATION L0064318	VOLUME	443406.694	3760466.229	203.17
LOCATION L0064319	VOLUME	443411.694	3760466.221	203.17
LOCATION L0064320	VOLUME	443416.694	3760466.214	203.18
LOCATION L0064321	VOLUME	443421.694	3760466.206	203.18
LOCATION L0064322	VOLUME	443426.694	3760466.199	203.18
LOCATION L0064323	VOLUME	443431.694	3760466.191	203.18
LOCATION L0064324	VOLUME	443436.694	3760466.184	203.19
LOCATION L0064325	VOLUME	443441.694	3760466.176	203.19
LOCATION L0064326	VOLUME	443446.693	3760466.169	203.20
LOCATION L0064327	VOLUME	443451.693	3760466.161	203.21
LOCATION L0064328	VOLUME	443456.693	3760466.153	203.22
LOCATION L0064329	VOLUME	443461.693	3760466.146	203.23
LOCATION L0064330	VOLUME	443466.693	3760466.138	203.24
LOCATION L0064331	VOLUME	443471.693	3760466.131	203.25
LOCATION L0064332	VOLUME	443476.693	3760466.123	203.26
LOCATION L0064333	VOLUME	443481.693	3760466.116	203.27
LOCATION L0064334	VOLUME	443486.693	3760466.108	203.27
LOCATION L0064335	VOLUME	443491.693	3760466.101	203.28
LOCATION L0064336	VOLUME	443496.693	3760466.093	203.27
LOCATION L0064337	VOLUME	443501.693	3760466.086	203.27
LOCATION L0064338	VOLUME	443506.693	3760466.078	203.27
LOCATION L0064339	VOLUME	443511.693	3760466.071	203.26
LOCATION L0064340	VOLUME	443516.693	3760466.063	203.26
LOCATION L0064341	VOLUME	443521.693	3760466.056	203.25
LOCATION L0064342	VOLUME	443526.693	3760466.048	203.25
LOCATION L0064343	VOLUME	443531.693	3760466.041	203.25
LOCATION L0064344	VOLUME	443536.693	3760466.033	203.25
LOCATION L0064345	VOLUME	443541.693	3760466.025	203.24
LOCATION L0064346	VOLUME	443546.693	3760466.018	203.25
LOCATION L0064347	VOLUME	443551.693	3760466.010	203.25
LOCATION L0064348	VOLUME	443556.693	3760466.003	203.25
LOCATION L0064349	VOLUME	443561.693	3760465.995	203.25
LOCATION L0064350	VOLUME	443566.693	3760465.988	203.25
LOCATION L0064351	VOLUME	443571.693	3760465.980	203.26
LOCATION L0064352	VOLUME	443576.693	3760465.973	203.26
LOCATION L0064353	VOLUME	443581.693	3760465.965	203.26
LOCATION L0064354	VOLUME	443586.693	3760465.958	203.26
LOCATION L0064355	VOLUME	443591.693	3760465.950	203.26
LOCATION L0064356	VOLUME	443596.693	3760465.947	203.28
LOCATION L0064357	VOLUME	443601.693	3760465.947	203.29
LOCATION L0064358	VOLUME	443606.693	3760465.947	203.31
LOCATION L0064359	VOLUME	443611.693	3760465.947	203.33

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LOCATION L0064360	VOLUME	443616.693	3760465.947	203.35
LOCATION L0064361	VOLUME	443621.693	3760465.947	203.36
LOCATION L0064362	VOLUME	443626.693	3760465.947	203.38
LOCATION L0064363	VOLUME	443631.693	3760465.947	203.39
LOCATION L0064364	VOLUME	443636.693	3760465.947	203.40
LOCATION L0064365	VOLUME	443641.693	3760465.947	203.42
LOCATION L0064366	VOLUME	443646.693	3760465.947	203.43
LOCATION L0064367	VOLUME	443651.693	3760465.947	203.45
LOCATION L0064368	VOLUME	443656.693	3760465.947	203.46
LOCATION L0064369	VOLUME	443661.693	3760465.947	203.48
LOCATION L0064370	VOLUME	443666.693	3760465.947	203.49
LOCATION L0064371	VOLUME	443671.693	3760465.947	203.50
LOCATION L0064372	VOLUME	443676.693	3760465.947	203.51
LOCATION L0064373	VOLUME	443681.693	3760465.951	203.52
LOCATION L0064374	VOLUME	443686.693	3760465.985	203.53
LOCATION L0064375	VOLUME	443691.693	3760466.019	203.53
LOCATION L0064376	VOLUME	443696.693	3760466.053	203.54
LOCATION L0064377	VOLUME	443701.693	3760466.087	203.55
LOCATION L0064378	VOLUME	443706.693	3760466.121	203.56
LOCATION L0064379	VOLUME	443711.693	3760466.155	203.57
LOCATION L0064380	VOLUME	443716.693	3760466.189	203.58
LOCATION L0064381	VOLUME	443721.692	3760466.223	203.59
LOCATION L0064382	VOLUME	443726.692	3760466.256	203.60
LOCATION L0064383	VOLUME	443731.692	3760466.290	203.62
LOCATION L0064384	VOLUME	443736.692	3760466.324	203.63
LOCATION L0064385	VOLUME	443741.692	3760466.358	203.64
LOCATION L0064386	VOLUME	443746.692	3760466.392	203.65
LOCATION L0064387	VOLUME	443751.692	3760466.426	203.66
LOCATION L0064388	VOLUME	443756.692	3760466.460	203.68
LOCATION L0064389	VOLUME	443761.691	3760466.494	203.70
LOCATION L0064390	VOLUME	443766.691	3760466.528	203.71
LOCATION L0064391	VOLUME	443771.691	3760466.562	203.73
LOCATION L0064392	VOLUME	443776.691	3760466.596	203.75
LOCATION L0064393	VOLUME	443781.691	3760466.630	203.78
LOCATION L0064394	VOLUME	443786.691	3760466.664	203.80
LOCATION L0064395	VOLUME	443791.691	3760466.698	203.83
LOCATION L0064396	VOLUME	443796.691	3760466.732	203.85
LOCATION L0064397	VOLUME	443801.691	3760466.766	203.88
LOCATION L0064398	VOLUME	443806.690	3760466.799	203.90
LOCATION L0064399	VOLUME	443811.690	3760466.833	203.93
LOCATION L0064400	VOLUME	443816.690	3760466.867	203.96
LOCATION L0064401	VOLUME	443821.690	3760466.901	203.98
LOCATION L0064402	VOLUME	443826.690	3760466.935	204.00
LOCATION L0064403	VOLUME	443831.690	3760466.969	204.02
LOCATION L0064404	VOLUME	443836.690	3760467.003	204.04
LOCATION L0064405	VOLUME	443841.690	3760467.037	204.05
LOCATION L0064406	VOLUME	443846.690	3760467.071	204.07
LOCATION L0064407	VOLUME	443851.689	3760467.105	204.10

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LOCATION L0064408	VOLUME	443856.689	3760467.139	204.15
LOCATION L0064409	VOLUME	443861.689	3760467.173	204.20
LOCATION L0064410	VOLUME	443866.689	3760467.207	204.25
LOCATION L0064411	VOLUME	443871.689	3760467.241	204.30
LOCATION L0064412	VOLUME	443876.689	3760467.275	204.32
LOCATION L0064413	VOLUME	443881.689	3760467.309	204.32

\*\* End of LINE VOLUME Source ID = SLINE5

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE11

\*\* DESCRSRC On-Site Construction Movement

\*\* PREFIX

\*\* Length of Side = 75.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00394

\*\* Vertical Dimension = 7.65

\*\* SZINIT = 3.56

\*\* Nodes = 20

** 440839.467, 3761241.476, 203.48, 3.83, 34.88
** 440843.774, 3760502.073, 196.88, 3.83, 34.88
** 440962.011, 3760505.804, 198.12, 3.83, 34.88
** 440967.042, 3761204.589, 204.27, 3.83, 34.88
** 441102.599, 3761202.451, 203.48, 3.83, 34.88
** 441091.785, 3760519.106, 199.19, 3.83, 34.88
** 441224.212, 3760518.319, 198.61, 3.83, 34.88
** 441224.693, 3761222.294, 203.88, 3.83, 34.88
** 441351.834, 3761220.369, 204.01, 3.83, 34.88
** 441342.744, 3760528.504, 199.88, 3.83, 34.88
** 441478.199, 3760520.597, 199.59, 3.83, 34.88
** 441473.781, 3761214.635, 204.06, 3.83, 34.88
** 441613.303, 3761211.108, 204.84, 3.83, 34.88
** 441586.511, 3760521.931, 199.92, 3.83, 34.88
** 441709.816, 3760523.808, 200.18, 3.83, 34.88
** 441704.970, 3761228.718, 205.23, 3.83, 34.88
** 441803.616, 3761225.864, 205.28, 3.83, 34.88
** 441804.128, 3760513.992, 199.97, 3.83, 34.88
** 441912.111, 3760511.362, 200.08, 3.83, 34.88
** 441911.219, 3761250.675, 205.51, 3.83, 34.88

\*\*

LOCATION L0042930	VOLUME	440839.686	3761203.977	203.01
LOCATION L0042931	VOLUME	440840.123	3761128.978	202.34
LOCATION L0042932	VOLUME	440840.559	3761053.979	201.58
LOCATION L0042933	VOLUME	440840.996	3760978.980	200.70
LOCATION L0042934	VOLUME	440841.433	3760903.982	200.23
LOCATION L0042935	VOLUME	440841.870	3760828.983	199.75
LOCATION L0042936	VOLUME	440842.306	3760753.984	199.29
LOCATION L0042937	VOLUME	440842.743	3760678.985	198.63
LOCATION L0042938	VOLUME	440843.180	3760603.987	197.94

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LOCATION L0042939	VOLUME	440843.617	3760528.988	197.07
LOCATION L0042940	VOLUME	440891.834	3760503.589	197.64
LOCATION L0042941	VOLUME	440962.045	3760510.592	198.13
LOCATION L0042942	VOLUME	440962.585	3760585.590	198.78
LOCATION L0042943	VOLUME	440963.125	3760660.588	199.22
LOCATION L0042944	VOLUME	440963.665	3760735.586	199.68
LOCATION L0042945	VOLUME	440964.205	3760810.584	199.49
LOCATION L0042946	VOLUME	440964.745	3760885.582	201.26
LOCATION L0042947	VOLUME	440965.285	3760960.580	202.03
LOCATION L0042948	VOLUME	440965.825	3761035.579	202.85
LOCATION L0042949	VOLUME	440966.365	3761110.577	203.74
LOCATION L0042950	VOLUME	440966.905	3761185.575	204.44
LOCATION L0042951	VOLUME	441023.020	3761203.706	203.46
LOCATION L0042952	VOLUME	441098.011	3761202.524	203.57
LOCATION L0042953	VOLUME	441101.485	3761132.049	203.33
LOCATION L0042954	VOLUME	441100.298	3761057.059	202.84
LOCATION L0042955	VOLUME	441099.111	3760982.068	202.11
LOCATION L0042956	VOLUME	441097.925	3760907.077	201.48
LOCATION L0042957	VOLUME	441096.738	3760832.087	201.09
LOCATION L0042958	VOLUME	441095.551	3760757.096	200.50
LOCATION L0042959	VOLUME	441094.364	3760682.106	200.48
LOCATION L0042960	VOLUME	441093.177	3760607.115	199.97
LOCATION L0042961	VOLUME	441091.991	3760532.124	199.43
LOCATION L0042962	VOLUME	441153.764	3760518.738	199.47
LOCATION L0042963	VOLUME	441224.215	3760522.870	199.29
LOCATION L0042964	VOLUME	441224.266	3760597.870	200.21
LOCATION L0042965	VOLUME	441224.317	3760672.870	200.63
LOCATION L0042966	VOLUME	441224.368	3760747.870	201.08
LOCATION L0042967	VOLUME	441224.420	3760822.870	201.50
LOCATION L0042968	VOLUME	441224.471	3760897.870	201.95
LOCATION L0042969	VOLUME	441224.522	3760972.870	202.42
LOCATION L0042970	VOLUME	441224.574	3761047.870	202.90
LOCATION L0042971	VOLUME	441224.625	3761122.870	203.35
LOCATION L0042972	VOLUME	441224.676	3761197.870	203.82
LOCATION L0042973	VOLUME	441275.263	3761221.528	204.10
LOCATION L0042974	VOLUME	441350.254	3761220.393	204.07
LOCATION L0042975	VOLUME	441350.870	3761146.955	203.65
LOCATION L0042976	VOLUME	441349.884	3761071.962	203.15
LOCATION L0042977	VOLUME	441348.899	3760996.968	202.65
LOCATION L0042978	VOLUME	441347.914	3760921.975	202.18
LOCATION L0042979	VOLUME	441346.928	3760846.981	201.77
LOCATION L0042980	VOLUME	441345.943	3760771.988	201.23
LOCATION L0042981	VOLUME	441344.958	3760696.994	200.80
LOCATION L0042982	VOLUME	441343.972	3760622.001	200.38
LOCATION L0042983	VOLUME	441342.987	3760547.007	200.18
LOCATION L0042984	VOLUME	441399.143	3760525.212	199.64
LOCATION L0042985	VOLUME	441474.015	3760520.841	199.66
LOCATION L0042986	VOLUME	441477.748	3760591.405	200.16

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LOCATION L0042987	VOLUME	441477.271	3760666.403	200.63
LOCATION L0042988	VOLUME	441476.793	3760741.402	201.04
LOCATION L0042989	VOLUME	441476.316	3760816.400	201.79
LOCATION L0042990	VOLUME	441475.838	3760891.399	202.01
LOCATION L0042991	VOLUME	441475.361	3760966.397	202.21
LOCATION L0042992	VOLUME	441474.884	3761041.396	202.93
LOCATION L0042993	VOLUME	441474.406	3761116.394	203.45
LOCATION L0042994	VOLUME	441473.929	3761191.393	203.94
LOCATION L0042995	VOLUME	441525.522	3761213.327	204.18
LOCATION L0042996	VOLUME	441600.498	3761211.431	204.71
LOCATION L0042997	VOLUME	441610.887	3761148.963	204.45
LOCATION L0042998	VOLUME	441607.974	3761074.020	203.73
LOCATION L0042999	VOLUME	441605.060	3760999.077	202.99
LOCATION L0043000	VOLUME	441602.147	3760924.133	202.45
LOCATION L0043001	VOLUME	441599.233	3760849.190	201.86
LOCATION L0043002	VOLUME	441596.320	3760774.246	201.22
LOCATION L0043003	VOLUME	441593.407	3760699.303	200.18
LOCATION L0043004	VOLUME	441590.493	3760624.360	200.65
LOCATION L0043005	VOLUME	441587.580	3760549.416	200.05
LOCATION L0043006	VOLUME	441633.999	3760522.654	200.23
LOCATION L0043007	VOLUME	441708.991	3760523.795	200.20
LOCATION L0043008	VOLUME	441709.307	3760597.980	200.80
LOCATION L0043009	VOLUME	441708.791	3760672.978	199.72
LOCATION L0043010	VOLUME	441708.275	3760747.977	200.63
LOCATION L0043011	VOLUME	441707.760	3760822.975	201.94
LOCATION L0043012	VOLUME	441707.244	3760897.973	202.25
LOCATION L0043013	VOLUME	441706.729	3760972.971	202.74
LOCATION L0043014	VOLUME	441706.213	3761047.970	203.23
LOCATION L0043015	VOLUME	441705.697	3761122.968	203.63
LOCATION L0043016	VOLUME	441705.182	3761197.966	204.77
LOCATION L0043017	VOLUME	441749.199	3761227.439	204.98
LOCATION L0043018	VOLUME	441803.631	3761205.305	205.07
LOCATION L0043019	VOLUME	441803.685	3761130.305	204.41
LOCATION L0043020	VOLUME	441803.739	3761055.305	203.86
LOCATION L0043021	VOLUME	441803.793	3760980.305	203.24
LOCATION L0043022	VOLUME	441803.847	3760905.305	202.70
LOCATION L0043023	VOLUME	441803.901	3760830.305	202.09
LOCATION L0043024	VOLUME	441803.954	3760755.305	201.54
LOCATION L0043025	VOLUME	441804.008	3760680.305	201.62
LOCATION L0043026	VOLUME	441804.062	3760605.305	200.85
LOCATION L0043027	VOLUME	441804.116	3760530.305	200.09
LOCATION L0043028	VOLUME	441862.798	3760512.563	199.94
LOCATION L0043029	VOLUME	441912.080	3760537.033	200.13
LOCATION L0043030	VOLUME	441911.990	3760612.033	200.91
LOCATION L0043031	VOLUME	441911.899	3760687.033	201.84
LOCATION L0043032	VOLUME	441911.809	3760762.033	201.92
LOCATION L0043033	VOLUME	441911.718	3760837.033	202.45
LOCATION L0043034	VOLUME	441911.628	3760912.033	202.87

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LOCATION L0043035 VOLUME 441911.537 3760987.033 203.27  
 LOCATION L0043036 VOLUME 441911.447 3761062.033 203.73  
 LOCATION L0043037 VOLUME 441911.356 3761137.033 204.26  
 LOCATION L0043038 VOLUME 441911.266 3761212.033 204.91

\*\* End of LINE VOLUME Source ID = SLINE11

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM L0015628	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015629	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015630	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015631	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015632	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015633	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015634	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015635	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015636	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015637	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015638	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015639	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015640	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015641	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015642	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015650	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015657	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015658	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015659	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015660	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015661	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015662	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015663	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015664	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015665	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015666	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015667	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015668	0.00000008919	3.66	5.58	2.89



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SRCPARAM L0015669	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015670	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015671	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015672	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015681	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015682	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015685	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015686	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015687	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015702	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015703	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015704	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015705	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015706	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015707	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015708	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015709	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015710	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015711	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015712	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015713	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015714	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015715	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015716	0.00000008919	3.66	5.58	2.89

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SRCPARAM L0015717	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015718	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015719	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015720	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015721	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015723	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015726	0.00000008919	3.66	5.58	2.89
SRCPARAM L0015727	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015729	0.00000008919	3.66	5.58	2.89
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SRCPARAM L0015764	0.00000008919	3.66	5.58	2.89



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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM	L0042703	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042704	0.00000008949	3.66	5.58	2.89
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SRCPARAM	L0042708	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042709	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042710	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042711	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042712	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042713	0.00000008949	3.66	5.58	2.89
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SRCPARAM	L0042715	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042716	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042717	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042718	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042719	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042720	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042721	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042722	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042723	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042724	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042725	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042726	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042727	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042728	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042729	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042730	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042731	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042732	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042733	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042734	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042735	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042736	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042737	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042738	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042739	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042740	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042741	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042742	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042743	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042744	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042745	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042746	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042747	0.00000008949	3.66	5.58	2.89
SRCPARAM	L0042748	0.00000008949	3.66	5.58	2.89

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SRCPARAM L0042749	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042750	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042751	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042752	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042753	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042754	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042755	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042756	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042757	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042758	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042759	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042760	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042761	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042762	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042763	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042764	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042765	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042766	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042767	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042768	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042769	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042770	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042771	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042772	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042773	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042774	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042775	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042776	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042777	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042778	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042779	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042780	0.00000008949	3.66	5.58	2.89
SRCPARAM L0042781	0.00000008949	3.66	5.58	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM L0016324	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016325	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016326	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016327	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016328	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016329	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016330	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016331	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016332	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016333	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016334	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016335	0.00000003709	3.66	2.33	2.89
SRCPARAM L0016336	0.00000003709	3.66	2.33	2.89













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SRCPARAM	L0016577	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016578	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016579	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016580	0.00000003709	3.66	2.33	2.89
SRCPARAM	L0016581	0.00000003709	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE5

SRCPARAM	L0064036	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064037	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064038	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064039	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064040	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064041	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064042	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064043	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064044	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064045	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064046	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064047	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064048	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064049	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064050	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064051	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064052	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064053	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064054	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064055	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064056	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064057	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064058	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064059	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064060	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064061	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064062	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064063	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064064	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064065	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064066	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064067	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064068	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064069	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064070	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064071	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064072	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064073	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064074	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064075	0.00000003704	3.66	2.33	2.89
SRCPARAM	L0064076	0.00000003704	3.66	2.33	2.89









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SRCPARAM L0064269	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064270	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064271	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064272	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064273	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064274	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064275	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064276	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064277	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064278	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064279	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064280	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064281	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064282	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064283	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064284	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064285	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064286	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064287	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064288	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064289	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064290	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064291	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064292	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064293	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064294	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064295	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064296	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064297	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064298	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064299	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064300	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064301	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064302	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064303	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064304	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064305	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064306	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064307	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064308	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064309	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064310	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064311	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064312	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064313	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064314	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064315	0.00000003704	3.66	2.33	2.89
SRCPARAM L0064316	0.00000003704	3.66	2.33	2.89







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SRCPARAM	L0064413	0.00000003704	3.66	2.33	2.89
**	-----				
**	LINE VOLUME Source ID = SLINE11				
SRCPARAM	L0042930	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042931	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042932	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042933	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042934	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042935	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042936	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042937	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042938	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042939	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042940	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042941	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042942	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042943	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042944	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042945	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042946	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042947	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042948	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042949	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042950	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042951	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042952	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042953	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042954	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042955	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042956	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042957	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042958	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042959	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042960	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042961	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042962	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042963	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042964	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042965	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042966	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042967	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042968	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042969	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042970	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042971	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042972	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042973	0.0000361468	3.83	34.88	3.56
SRCPARAM	L0042974	0.0000361468	3.83	34.88	3.56



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SRCPARAM L0043023	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043024	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043025	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043026	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043027	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043028	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043029	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043030	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043031	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043032	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043033	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043034	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043035	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043036	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043037	0.0000361468	3.83	34.88	3.56
SRCPARAM L0043038	0.0000361468	3.83	34.88	3.56

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URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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\*\*

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RE STARTING

INCLUDED SOL\_construction\_r.rou

RE FINISHED

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\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

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ME STARTING

SURFFILE KCNO\_V9\_ADJU\KCNO\_v9.SFC

PROFFILE KCNO\_V9\_ADJU\KCNO\_v9.PFL

SURFDATA 3179 2012

UAIRDATA 3190 2012

PROFBASE 198.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 24 1ST
\*\* Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST SOL\_CONSTRUCTION\_R.AD\01H1GALL.PLT 31
PLOTFILE 24 ALL 1ST SOL\_CONSTRUCTION\_R.AD\24H1GALL.PLT 32
PLOTFILE PERIOD ALL SOL\_CONSTRUCTION\_R.AD\PE00GALL.PLT 33
SUMMFILE SOL\_construction\_r.sum
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*
ME W186 2202 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 2202 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*
\*\*\* SETUP Finishes Successfully \*\*\*
\*\*\*\*\*

\*\*\* AERMOD - VERSION 19191 \*\*\* Construction
\*\*\* 03/08/21
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

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SOL\_construction\_r.ADO

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 1009 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 24-HR  
and Calculates PERIOD Averages

\*\*This Run Includes: 1009 Source(s); 1 Source Group(s); and 160  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 1009 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

SOL\_construction\_r.ADO

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE

Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing

Hours

b for Both Calm

and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.9 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: SOL\_construction\_r.err

\*\*File for Summary of Results: SOL\_construction\_r.sum

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
\*\*\* 03/08/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER EMISSION RATE	BASE	RELEASE	INIT.
SOURCE	EMISSION RATE		ELEV.	HEIGHT	SY
SZ	SOURCE	PART. (GRAMS/SEC)	X	Y	
		SCALAR VARY			



SOL\_construction\_r.ADO

ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS)  
 BY

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L0015628	0	0.89190E-07	439897.9	3762682.1	217.5	3.66	5.58
2.89 YES							
L0015629	0	0.89190E-07	439897.8	3762670.1	217.3	3.66	5.58
2.89 YES							
L0015630	0	0.89190E-07	439897.8	3762658.1	217.2	3.66	5.58
2.89 YES							
L0015631	0	0.89190E-07	439897.7	3762646.1	217.0	3.66	5.58
2.89 YES							
L0015632	0	0.89190E-07	439897.7	3762634.1	216.9	3.66	5.58
2.89 YES							
L0015633	0	0.89190E-07	439897.7	3762622.1	216.7	3.66	5.58
2.89 YES							
L0015634	0	0.89190E-07	439897.9	3762610.1	216.5	3.66	5.58
2.89 YES							
L0015635	0	0.89190E-07	439898.0	3762598.1	216.4	3.66	5.58
2.89 YES							
L0015636	0	0.89190E-07	439898.1	3762586.1	216.2	3.66	5.58
2.89 YES							
L0015637	0	0.89190E-07	439898.2	3762574.1	216.1	3.66	5.58
2.89 YES							
L0015638	0	0.89190E-07	439898.3	3762562.1	216.0	3.66	5.58
2.89 YES							
L0015639	0	0.89190E-07	439898.4	3762550.1	215.8	3.66	5.58
2.89 YES							
L0015640	0	0.89190E-07	439898.5	3762538.1	215.7	3.66	5.58
2.89 YES							
L0015641	0	0.89190E-07	439898.6	3762526.1	215.5	3.66	5.58
2.89 YES							
L0015642	0	0.89190E-07	439898.8	3762514.1	215.4	3.66	5.58
2.89 YES							
L0015643	0	0.89190E-07	439898.9	3762502.1	215.3	3.66	5.58
2.89 YES							
L0015644	0	0.89190E-07	439899.0	3762490.1	215.2	3.66	5.58
2.89 YES							
L0015645	0	0.89190E-07	439899.1	3762478.1	215.0	3.66	5.58
2.89 YES							
L0015646	0	0.89190E-07	439899.2	3762466.1	214.9	3.66	5.58
2.89 YES							
L0015647	0	0.89190E-07	439899.3	3762454.1	214.8	3.66	5.58
2.89 YES							
L0015648	0	0.89190E-07	439899.4	3762442.1	214.6	3.66	5.58
2.89 YES							
L0015649	0	0.89190E-07	439899.5	3762430.1	214.4	3.66	5.58

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2.89	YES							
L0015650		0	0.89190E-07	439899.7	3762418.1	214.3	3.66	5.58
2.89	YES							
L0015651		0	0.89190E-07	439899.8	3762406.1	214.1	3.66	5.58
2.89	YES							
L0015652		0	0.89190E-07	439899.9	3762394.1	214.0	3.66	5.58
2.89	YES							
L0015653		0	0.89190E-07	439900.0	3762382.1	213.8	3.66	5.58
2.89	YES							
L0015654		0	0.89190E-07	439900.1	3762370.1	213.7	3.66	5.58
2.89	YES							
L0015655		0	0.89190E-07	439900.0	3762358.1	213.5	3.66	5.58
2.89	YES							
L0015656		0	0.89190E-07	439899.9	3762346.1	213.3	3.66	5.58
2.89	YES							
L0015657		0	0.89190E-07	439899.9	3762334.1	213.2	3.66	5.58
2.89	YES							
L0015658		0	0.89190E-07	439899.8	3762322.1	213.0	3.66	5.58
2.89	YES							
L0015659		0	0.89190E-07	439899.7	3762310.1	212.8	3.66	5.58
2.89	YES							
L0015660		0	0.89190E-07	439899.6	3762298.1	212.6	3.66	5.58
2.89	YES							
L0015661		0	0.89190E-07	439899.5	3762286.1	212.4	3.66	5.58
2.89	YES							
L0015662		0	0.89190E-07	439899.4	3762274.1	212.2	3.66	5.58
2.89	YES							
L0015663		0	0.89190E-07	439899.4	3762262.1	212.0	3.66	5.58
2.89	YES							
L0015664		0	0.89190E-07	439899.3	3762250.1	211.8	3.66	5.58
2.89	YES							
L0015665		0	0.89190E-07	439899.2	3762238.1	211.6	3.66	5.58
2.89	YES							
L0015666		0	0.89190E-07	439899.1	3762226.1	211.5	3.66	5.58
2.89	YES							
L0015667		0	0.89190E-07	439899.0	3762214.1	211.3	3.66	5.58

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

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INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
	ID	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
(METERS)		SCALAR	VARY					
		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0015668		0	0.89190E-07	439898.9	3762202.1	211.1	3.66	5.58
2.89	YES							
L0015669		0	0.89190E-07	439898.9	3762190.1	211.0	3.66	5.58
2.89	YES							
L0015670		0	0.89190E-07	439898.8	3762178.1	210.9	3.66	5.58
2.89	YES							
L0015671		0	0.89190E-07	439898.7	3762166.1	210.8	3.66	5.58
2.89	YES							
L0015672		0	0.89190E-07	439898.6	3762154.1	210.7	3.66	5.58
2.89	YES							
L0015673		0	0.89190E-07	439898.5	3762142.1	210.6	3.66	5.58
2.89	YES							
L0015674		0	0.89190E-07	439898.4	3762130.1	210.5	3.66	5.58
2.89	YES							
L0015675		0	0.89190E-07	439898.4	3762118.1	210.4	3.66	5.58
2.89	YES							
L0015676		0	0.89190E-07	439898.3	3762106.1	210.3	3.66	5.58
2.89	YES							
L0015677		0	0.89190E-07	439898.2	3762094.1	210.2	3.66	5.58
2.89	YES							
L0015678		0	0.89190E-07	439898.1	3762082.1	210.1	3.66	5.58
2.89	YES							
L0015679		0	0.89190E-07	439898.0	3762070.1	210.0	3.66	5.58
2.89	YES							
L0015680		0	0.89190E-07	439898.0	3762058.1	210.0	3.66	5.58
2.89	YES							
L0015681		0	0.89190E-07	439898.0	3762046.1	209.9	3.66	5.58
2.89	YES							
L0015682		0	0.89190E-07	439897.9	3762034.1	209.8	3.66	5.58
2.89	YES							
L0015683		0	0.89190E-07	439897.9	3762022.1	209.7	3.66	5.58
2.89	YES							
L0015684		0	0.89190E-07	439897.9	3762010.1	209.6	3.66	5.58
2.89	YES							
L0015685		0	0.89190E-07	439897.8	3761998.1	209.5	3.66	5.58
2.89	YES							
L0015686		0	0.89190E-07	439897.8	3761986.1	209.4	3.66	5.58
2.89	YES							
L0015687		0	0.89190E-07	439897.8	3761974.1	209.3	3.66	5.58

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2.89	YES							
L0015688		0	0.89190E-07	439897.7	3761962.1	209.2	3.66	5.58
2.89	YES							
L0015689		0	0.89190E-07	439897.7	3761950.1	209.1	3.66	5.58
2.89	YES							
L0015690		0	0.89190E-07	439897.7	3761938.1	209.0	3.66	5.58
2.89	YES							
L0015691		0	0.89190E-07	439897.6	3761926.1	208.9	3.66	5.58
2.89	YES							
L0015692		0	0.89190E-07	439897.6	3761914.1	208.8	3.66	5.58
2.89	YES							
L0015693		0	0.89190E-07	439897.6	3761902.1	208.7	3.66	5.58
2.89	YES							
L0015694		0	0.89190E-07	439897.5	3761890.1	208.6	3.66	5.58
2.89	YES							
L0015695		0	0.89190E-07	439897.5	3761878.1	208.5	3.66	5.58
2.89	YES							
L0015696		0	0.89190E-07	439897.5	3761866.1	208.4	3.66	5.58
2.89	YES							
L0015697		0	0.89190E-07	439897.4	3761854.1	208.2	3.66	5.58
2.89	YES							
L0015698		0	0.89190E-07	439897.4	3761842.1	208.2	3.66	5.58
2.89	YES							
L0015699		0	0.89190E-07	439897.4	3761830.1	208.0	3.66	5.58
2.89	YES							
L0015700		0	0.89190E-07	439897.3	3761818.1	207.9	3.66	5.58
2.89	YES							
L0015701		0	0.89190E-07	439897.3	3761806.1	207.8	3.66	5.58
2.89	YES							
L0015702		0	0.89190E-07	439897.3	3761794.1	207.7	3.66	5.58
2.89	YES							
L0015703		0	0.89190E-07	439897.2	3761782.1	207.6	3.66	5.58
2.89	YES							
L0015704		0	0.89190E-07	439897.2	3761770.1	207.5	3.66	5.58
2.89	YES							
L0015705		0	0.89190E-07	439897.2	3761758.1	207.4	3.66	5.58
2.89	YES							
L0015706		0	0.89190E-07	439897.1	3761746.1	207.3	3.66	5.58
2.89	YES							
L0015707		0	0.89190E-07	439897.1	3761734.1	207.2	3.66	5.58

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0015708		0	0.89190E-07	439897.1	3761722.1	207.1	3.66	5.58
2.89	YES							
L0015709		0	0.89190E-07	439897.0	3761710.1	207.0	3.66	5.58
2.89	YES							
L0015710		0	0.89190E-07	439897.0	3761698.1	206.9	3.66	5.58
2.89	YES							
L0015711		0	0.89190E-07	439897.0	3761686.1	206.8	3.66	5.58
2.89	YES							
L0015712		0	0.89190E-07	439896.9	3761674.1	206.7	3.66	5.58
2.89	YES							
L0015713		0	0.89190E-07	439896.9	3761662.1	206.6	3.66	5.58
2.89	YES							
L0015714		0	0.89190E-07	439896.8	3761650.1	206.5	3.66	5.58
2.89	YES							
L0015715		0	0.89190E-07	439896.8	3761638.1	206.4	3.66	5.58
2.89	YES							
L0015716		0	0.89190E-07	439896.8	3761626.1	206.3	3.66	5.58
2.89	YES							
L0015717		0	0.89190E-07	439896.7	3761614.1	206.2	3.66	5.58
2.89	YES							
L0015718		0	0.89190E-07	439896.7	3761602.1	206.1	3.66	5.58
2.89	YES							
L0015719		0	0.89190E-07	439896.7	3761590.1	206.0	3.66	5.58
2.89	YES							
L0015720		0	0.89190E-07	439896.6	3761578.1	205.9	3.66	5.58
2.89	YES							
L0015721		0	0.89190E-07	439896.6	3761566.1	205.8	3.66	5.58
2.89	YES							
L0015722		0	0.89190E-07	439896.6	3761554.1	205.6	3.66	5.58
2.89	YES							
L0015723		0	0.89190E-07	439896.5	3761542.1	205.5	3.66	5.58
2.89	YES							
L0015724		0	0.89190E-07	439896.5	3761530.1	205.3	3.66	5.58
2.89	YES							
L0015725		0	0.89190E-07	439896.5	3761518.1	205.2	3.66	5.58

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2.89	YES							
L0015726		0	0.89190E-07	439896.4	3761506.1	205.1	3.66	5.58
2.89	YES							
L0015727		0	0.89190E-07	439896.4	3761494.1	204.9	3.66	5.58
2.89	YES							
L0015728		0	0.89190E-07	439896.4	3761482.1	204.8	3.66	5.58
2.89	YES							
L0015729		0	0.89190E-07	439896.3	3761470.1	204.6	3.66	5.58
2.89	YES							
L0015730		0	0.89190E-07	439896.3	3761458.1	204.5	3.66	5.58
2.89	YES							
L0015731		0	0.89190E-07	439896.3	3761446.1	204.4	3.66	5.58
2.89	YES							
L0015732		0	0.89190E-07	439896.2	3761434.1	204.2	3.66	5.58
2.89	YES							
L0015733		0	0.89190E-07	439896.2	3761422.1	204.1	3.66	5.58
2.89	YES							
L0015734		0	0.89190E-07	439896.2	3761410.1	203.9	3.66	5.58
2.89	YES							
L0015735		0	0.89190E-07	439896.1	3761398.1	203.8	3.66	5.58
2.89	YES							
L0015736		0	0.89190E-07	439896.1	3761386.1	203.6	3.66	5.58
2.89	YES							
L0015737		0	0.89190E-07	439896.1	3761374.1	203.5	3.66	5.58
2.89	YES							
L0015738		0	0.89190E-07	439896.0	3761362.1	203.3	3.66	5.58
2.89	YES							
L0015739		0	0.89190E-07	439896.0	3761350.1	203.2	3.66	5.58
2.89	YES							
L0015740		0	0.89190E-07	439896.0	3761338.1	203.1	3.66	5.58
2.89	YES							
L0015741		0	0.89190E-07	439895.9	3761326.1	202.9	3.66	5.58
2.89	YES							
L0015742		0	0.89190E-07	439895.9	3761314.1	202.8	3.66	5.58
2.89	YES							
L0015743		0	0.89190E-07	439895.9	3761302.1	202.7	3.66	5.58
2.89	YES							
L0015744		0	0.89190E-07	439895.8	3761290.1	202.6	3.66	5.58
2.89	YES							
L0015745		0	0.89190E-07	439895.8	3761278.1	202.4	3.66	5.58
2.89	YES							
L0015746		0	0.89190E-07	439895.8	3761266.1	202.3	3.66	5.58
2.89	YES							
L0015747		0	0.89190E-07	439895.8	3761254.1	202.2	3.66	5.58

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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0015748		0	0.89190E-07	439895.8	3761242.1	202.1	3.66	5.58
2.89	YES							
L0015749		0	0.89190E-07	439895.8	3761230.1	202.0	3.66	5.58
2.89	YES							
L0015750		0	0.89190E-07	439895.8	3761218.1	201.9	3.66	5.58
2.89	YES							
L0015751		0	0.89190E-07	439895.8	3761206.1	201.8	3.66	5.58
2.89	YES							
L0015752		0	0.89190E-07	439895.8	3761194.1	201.7	3.66	5.58
2.89	YES							
L0015753		0	0.89190E-07	439895.8	3761182.1	201.6	3.66	5.58
2.89	YES							
L0015754		0	0.89190E-07	439895.8	3761170.1	201.5	3.66	5.58
2.89	YES							
L0015755		0	0.89190E-07	439895.8	3761158.1	201.4	3.66	5.58
2.89	YES							
L0015756		0	0.89190E-07	439895.8	3761146.1	201.2	3.66	5.58
2.89	YES							
L0015757		0	0.89190E-07	439895.8	3761134.1	201.1	3.66	5.58
2.89	YES							
L0015758		0	0.89190E-07	439895.8	3761122.1	201.0	3.66	5.58
2.89	YES							
L0015759		0	0.89190E-07	439895.8	3761110.1	200.9	3.66	5.58
2.89	YES							
L0015760		0	0.89190E-07	439895.8	3761098.1	200.7	3.66	5.58
2.89	YES							
L0015761		0	0.89190E-07	439895.8	3761086.1	200.6	3.66	5.58
2.89	YES							
L0015762		0	0.89190E-07	439895.8	3761074.1	200.5	3.66	5.58
2.89	YES							
L0015763		0	0.89190E-07	439895.8	3761062.1	200.4	3.66	5.58

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2.89	YES							
L0015764		0	0.89190E-07	439895.8	3761050.1	200.2	3.66	5.58
2.89	YES							
L0015765		0	0.89190E-07	439895.8	3761038.1	200.1	3.66	5.58
2.89	YES							
L0015766		0	0.89190E-07	439895.8	3761026.1	199.9	3.66	5.58
2.89	YES							
L0015767		0	0.89190E-07	439895.8	3761014.1	199.8	3.66	5.58
2.89	YES							
L0015768		0	0.89190E-07	439895.8	3761002.1	199.6	3.66	5.58
2.89	YES							
L0015769		0	0.89190E-07	439895.8	3760990.1	199.5	3.66	5.58
2.89	YES							
L0015770		0	0.89190E-07	439895.8	3760978.1	199.3	3.66	5.58
2.89	YES							
L0015771		0	0.89190E-07	439895.8	3760966.1	199.2	3.66	5.58
2.89	YES							
L0015772		0	0.89190E-07	439895.8	3760954.1	199.0	3.66	5.58
2.89	YES							
L0015773		0	0.89190E-07	439895.8	3760942.1	198.9	3.66	5.58
2.89	YES							
L0015774		0	0.89190E-07	439895.8	3760930.1	198.7	3.66	5.58
2.89	YES							
L0015775		0	0.89190E-07	439895.8	3760918.1	198.6	3.66	5.58
2.89	YES							
L0015776		0	0.89190E-07	439895.8	3760906.1	198.4	3.66	5.58
2.89	YES							
L0015777		0	0.89190E-07	439895.8	3760894.1	198.2	3.66	5.58
2.89	YES							
L0015778		0	0.89190E-07	439895.8	3760882.1	198.1	3.66	5.58
2.89	YES							
L0015779		0	0.89190E-07	439895.8	3760870.1	197.9	3.66	5.58
2.89	YES							
L0015780		0	0.89190E-07	439895.8	3760858.1	197.8	3.66	5.58
2.89	YES							
L0015781		0	0.89190E-07	439895.8	3760846.1	197.6	3.66	5.58
2.89	YES							
L0015782		0	0.89190E-07	439895.8	3760834.1	197.4	3.66	5.58
2.89	YES							
L0015783		0	0.89190E-07	439895.8	3760822.1	197.3	3.66	5.58
2.89	YES							
L0015784		0	0.89190E-07	439895.8	3760810.1	197.1	3.66	5.58
2.89	YES							
L0015785		0	0.89190E-07	439895.8	3760798.1	197.0	3.66	5.58
2.89	YES							
L0015786		0	0.89190E-07	439895.8	3760786.1	196.8	3.66	5.58
2.89	YES							
L0015787		0	0.89190E-07	439895.8	3760774.1	196.7	3.66	5.58



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2.89 YES

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	(GRAMS/SEC)	X	Y	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)
L0015788		0	0.89190E-07	439895.8	3760762.1	196.5	5.58
2.89	YES						
L0015789		0	0.89190E-07	439895.8	3760750.1	196.4	5.58
2.89	YES						
L0015790		0	0.89190E-07	439895.8	3760738.1	196.2	5.58
2.89	YES						
L0015791		0	0.89190E-07	439895.8	3760726.1	196.1	5.58
2.89	YES						
L0015792		0	0.89190E-07	439895.8	3760714.1	196.0	5.58
2.89	YES						
L0015793		0	0.89190E-07	439895.8	3760702.1	195.9	5.58
2.89	YES						
L0015794		0	0.89190E-07	439895.8	3760690.1	195.7	5.58
2.89	YES						
L0015795		0	0.89190E-07	439895.8	3760678.1	195.6	5.58
2.89	YES						
L0015796		0	0.89190E-07	439895.8	3760666.1	195.5	5.58
2.89	YES						
L0015797		0	0.89190E-07	439895.8	3760654.1	195.4	5.58
2.89	YES						
L0015798		0	0.89190E-07	439895.8	3760642.1	195.3	5.58
2.89	YES						
L0015799		0	0.89190E-07	439895.8	3760630.1	195.2	5.58
2.89	YES						
L0015800		0	0.89190E-07	439895.8	3760618.1	195.1	5.58
2.89	YES						
L0015801		0	0.89190E-07	439895.8	3760606.1	195.0	5.58

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2.89	YES							
L0015802		0	0.89190E-07	439895.8	3760594.1	194.9	3.66	5.58
2.89	YES							
L0015803		0	0.89190E-07	439895.8	3760582.1	194.8	3.66	5.58
2.89	YES							
L0015804		0	0.89190E-07	439895.8	3760570.1	194.7	3.66	5.58
2.89	YES							
L0015805		0	0.89190E-07	439895.8	3760558.1	194.6	3.66	5.58
2.89	YES							
L0015806		0	0.89190E-07	439895.8	3760546.1	194.5	3.66	5.58
2.89	YES							
L0015807		0	0.89190E-07	439895.8	3760534.1	194.3	3.66	5.58
2.89	YES							
L0015808		0	0.89190E-07	439895.8	3760522.1	194.2	3.66	5.58
2.89	YES							
L0015809		0	0.89190E-07	439895.8	3760510.1	194.1	3.66	5.58
2.89	YES							
L0015810		0	0.89190E-07	439895.8	3760498.1	194.0	3.66	5.58
2.89	YES							
L0015811		0	0.89190E-07	439895.8	3760486.1	193.9	3.66	5.58
2.89	YES							
L0015812		0	0.89190E-07	439895.8	3760474.1	193.8	3.66	5.58
2.89	YES							
L0042703		0	0.89490E-07	439895.9	3760465.5	193.7	3.66	5.58
2.89	YES							
L0042704		0	0.89490E-07	439895.7	3760453.5	193.6	3.66	5.58
2.89	YES							
L0042705		0	0.89490E-07	439895.6	3760441.5	193.5	3.66	5.58
2.89	YES							
L0042706		0	0.89490E-07	439895.4	3760429.5	193.4	3.66	5.58
2.89	YES							
L0042707		0	0.89490E-07	439895.2	3760417.5	193.3	3.66	5.58
2.89	YES							
L0042708		0	0.89490E-07	439895.1	3760405.5	193.2	3.66	5.58
2.89	YES							
L0042709		0	0.89490E-07	439894.9	3760393.5	193.2	3.66	5.58
2.89	YES							
L0042710		0	0.89490E-07	439894.8	3760381.5	193.1	3.66	5.58
2.89	YES							
L0042711		0	0.89490E-07	439894.6	3760369.5	193.0	3.66	5.58
2.89	YES							
L0042712		0	0.89490E-07	439894.5	3760357.5	193.0	3.66	5.58
2.89	YES							
L0042713		0	0.89490E-07	439894.3	3760345.5	192.9	3.66	5.58
2.89	YES							
L0042714		0	0.89490E-07	439894.1	3760333.5	192.8	3.66	5.58
2.89	YES							
L0042715		0	0.89490E-07	439894.0	3760321.5	192.7	3.66	5.58

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2.89 YES  
L0042716 0 0.89490E-07 439894.0 3760309.5 192.6 3.66 5.58

2.89 YES  
L0042717 0 0.89490E-07 439894.0 3760297.5 192.5 3.66 5.58

2.89 YES

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0042718 0 0.89490E-07 439894.0 3760285.5 192.4 3.66 5.58

2.89 YES  
L0042719 0 0.89490E-07 439894.0 3760273.5 192.3 3.66 5.58

2.89 YES  
L0042720 0 0.89490E-07 439894.0 3760261.5 192.2 3.66 5.58

2.89 YES  
L0042721 0 0.89490E-07 439894.1 3760249.5 192.1 3.66 5.58

2.89 YES  
L0042722 0 0.89490E-07 439894.1 3760237.5 192.0 3.66 5.58

2.89 YES  
L0042723 0 0.89490E-07 439894.1 3760225.5 191.9 3.66 5.58

2.89 YES  
L0042724 0 0.89490E-07 439894.1 3760213.5 191.7 3.66 5.58

2.89 YES  
L0042725 0 0.89490E-07 439894.1 3760201.5 191.6 3.66 5.58

2.89 YES  
L0042726 0 0.89490E-07 439894.1 3760189.5 191.5 3.66 5.58

2.89 YES  
L0042727 0 0.89490E-07 439894.1 3760177.5 191.4 3.66 5.58

2.89 YES  
L0042728 0 0.89490E-07 439894.1 3760165.5 191.4 3.66 5.58

2.89 YES  
L0042729 0 0.89490E-07 439894.1 3760153.5 191.3 3.66 5.58

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2.89	YES							
L0042730		0	0.89490E-07	439894.1	3760141.5	191.2	3.66	5.58
2.89	YES							
L0042731		0	0.89490E-07	439894.1	3760129.5	191.2	3.66	5.58
2.89	YES							
L0042732		0	0.89490E-07	439894.1	3760117.5	191.1	3.66	5.58
2.89	YES							
L0042733		0	0.89490E-07	439894.1	3760105.5	191.1	3.66	5.58
2.89	YES							
L0042734		0	0.89490E-07	439894.2	3760093.5	191.0	3.66	5.58
2.89	YES							
L0042735		0	0.89490E-07	439894.2	3760081.5	191.0	3.66	5.58
2.89	YES							
L0042736		0	0.89490E-07	439894.2	3760069.5	190.9	3.66	5.58
2.89	YES							
L0042737		0	0.89490E-07	439894.2	3760057.5	190.9	3.66	5.58
2.89	YES							
L0042738		0	0.89490E-07	439894.2	3760045.5	190.8	3.66	5.58
2.89	YES							
L0042739		0	0.89490E-07	439894.2	3760033.5	190.8	3.66	5.58
2.89	YES							
L0042740		0	0.89490E-07	439894.2	3760021.5	190.7	3.66	5.58
2.89	YES							
L0042741		0	0.89490E-07	439894.2	3760009.5	190.7	3.66	5.58
2.89	YES							
L0042742		0	0.89490E-07	439894.2	3759997.5	190.6	3.66	5.58
2.89	YES							
L0042743		0	0.89490E-07	439894.2	3759985.5	190.5	3.66	5.58
2.89	YES							
L0042744		0	0.89490E-07	439894.2	3759973.5	190.5	3.66	5.58
2.89	YES							
L0042745		0	0.89490E-07	439894.2	3759961.5	190.4	3.66	5.58
2.89	YES							
L0042746		0	0.89490E-07	439894.2	3759949.5	190.3	3.66	5.58
2.89	YES							
L0042747		0	0.89490E-07	439894.1	3759937.5	190.3	3.66	5.58
2.89	YES							
L0042748		0	0.89490E-07	439893.9	3759925.5	190.2	3.66	5.58
2.89	YES							
L0042749		0	0.89490E-07	439893.8	3759913.5	190.1	3.66	5.58
2.89	YES							
L0042750		0	0.89490E-07	439893.7	3759901.5	190.1	3.66	5.58
2.89	YES							
L0042751		0	0.89490E-07	439893.6	3759889.5	190.0	3.66	5.58
2.89	YES							
L0042752		0	0.89490E-07	439893.4	3759877.5	189.9	3.66	5.58
2.89	YES							
L0042753		0	0.89490E-07	439893.3	3759865.5	189.8	3.66	5.58

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2.89 YES  
 L0042754 0 0.89490E-07 439893.2 3759853.5 189.7 3.66 5.58  
 2.89 YES  
 L0042755 0 0.89490E-07 439893.1 3759841.5 189.6 3.66 5.58  
 2.89 YES  
 L0042756 0 0.89490E-07 439892.9 3759829.5 189.5 3.66 5.58  
 2.89 YES  
 L0042757 0 0.89490E-07 439892.8 3759817.5 189.4 3.66 5.58  
 2.89 YES

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0042758		0	0.89490E-07	439892.7	3759805.5	189.3	3.66	5.58
2.89	YES							
L0042759		0	0.89490E-07	439892.6	3759793.5	189.2	3.66	5.58
2.89	YES							
L0042760		0	0.89490E-07	439892.4	3759781.5	189.1	3.66	5.58
2.89	YES							
L0042761		0	0.89490E-07	439892.3	3759769.5	189.0	3.66	5.58
2.89	YES							
L0042762		0	0.89490E-07	439892.2	3759757.5	188.9	3.66	5.58
2.89	YES							
L0042763		0	0.89490E-07	439892.0	3759745.5	188.8	3.66	5.58
2.89	YES							
L0042764		0	0.89490E-07	439891.9	3759733.5	188.7	3.66	5.58
2.89	YES							
L0042765		0	0.89490E-07	439891.8	3759721.5	188.6	3.66	5.58
2.89	YES							
L0042766		0	0.89490E-07	439891.7	3759709.5	188.5	3.66	5.58
2.89	YES							
L0042767		0	0.89490E-07	439891.5	3759697.5	188.4	3.66	5.58

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2.89	YES							
L0042768		0	0.89490E-07	439891.4	3759685.5	188.3	3.66	5.58
2.89	YES							
L0042769		0	0.89490E-07	439891.3	3759673.5	188.2	3.66	5.58
2.89	YES							
L0042770		0	0.89490E-07	439891.2	3759661.5	188.1	3.66	5.58
2.89	YES							
L0042771		0	0.89490E-07	439891.0	3759649.5	188.0	3.66	5.58
2.89	YES							
L0042772		0	0.89490E-07	439890.9	3759637.5	187.9	3.66	5.58
2.89	YES							
L0042773		0	0.89490E-07	439890.8	3759625.5	187.8	3.66	5.58
2.89	YES							
L0042774		0	0.89490E-07	439890.7	3759613.5	187.6	3.66	5.58
2.89	YES							
L0042775		0	0.89490E-07	439890.5	3759601.5	187.5	3.66	5.58
2.89	YES							
L0042776		0	0.89490E-07	439890.4	3759589.5	187.4	3.66	5.58
2.89	YES							
L0042777		0	0.89490E-07	439890.3	3759577.5	187.4	3.66	5.58
2.89	YES							
L0042778		0	0.89490E-07	439890.2	3759565.5	187.2	3.66	5.58
2.89	YES							
L0042779		0	0.89490E-07	439890.0	3759553.5	187.2	3.66	5.58
2.89	YES							
L0042780		0	0.89490E-07	439889.9	3759541.5	187.1	3.66	5.58
2.89	YES							
L0042781		0	0.89490E-07	439889.8	3759529.5	187.0	3.66	5.58
2.89	YES							
L0016324		0	0.37090E-07	439900.9	3760465.5	193.7	3.66	2.33
2.89	YES							
L0016325		0	0.37090E-07	439905.9	3760465.4	193.7	3.66	2.33
2.89	YES							
L0016326		0	0.37090E-07	439910.9	3760465.3	193.7	3.66	2.33
2.89	YES							
L0016327		0	0.37090E-07	439915.9	3760465.3	193.7	3.66	2.33
2.89	YES							
L0016328		0	0.37090E-07	439920.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016329		0	0.37090E-07	439925.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016330		0	0.37090E-07	439930.9	3760465.1	193.7	3.66	2.33
2.89	YES							
L0016331		0	0.37090E-07	439935.9	3760465.0	193.7	3.66	2.33
2.89	YES							
L0016332		0	0.37090E-07	439940.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016333		0	0.37090E-07	439945.9	3760465.0	193.6	3.66	2.33

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2.89	YES							
L0016334		0	0.37090E-07	439950.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016335		0	0.37090E-07	439955.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016336		0	0.37090E-07	439960.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016337		0	0.37090E-07	439965.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016338		0	0.37090E-07	439970.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016339		0	0.37090E-07	439975.9	3760465.0	193.6	3.66	2.33

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0016340		0	0.37090E-07	439980.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016341		0	0.37090E-07	439985.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016342		0	0.37090E-07	439990.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016343		0	0.37090E-07	439995.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016344		0	0.37090E-07	440000.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016345		0	0.37090E-07	440005.9	3760465.0	193.6	3.66	2.33
2.89	YES							
L0016346		0	0.37090E-07	440010.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016347		0	0.37090E-07	440015.9	3760465.1	193.6	3.66	2.33

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2.89	YES							
L0016348		0	0.37090E-07	440020.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016349		0	0.37090E-07	440025.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016350		0	0.37090E-07	440030.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016351		0	0.37090E-07	440035.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016352		0	0.37090E-07	440040.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016353		0	0.37090E-07	440045.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016354		0	0.37090E-07	440050.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016355		0	0.37090E-07	440055.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016356		0	0.37090E-07	440060.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016357		0	0.37090E-07	440065.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016358		0	0.37090E-07	440070.9	3760465.1	193.6	3.66	2.33
2.89	YES							
L0016359		0	0.37090E-07	440075.9	3760465.1	193.7	3.66	2.33
2.89	YES							
L0016360		0	0.37090E-07	440080.9	3760465.1	193.7	3.66	2.33
2.89	YES							
L0016361		0	0.37090E-07	440085.9	3760465.1	193.7	3.66	2.33
2.89	YES							
L0016362		0	0.37090E-07	440090.9	3760465.1	193.7	3.66	2.33
2.89	YES							
L0016363		0	0.37090E-07	440095.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016364		0	0.37090E-07	440100.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016365		0	0.37090E-07	440105.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016366		0	0.37090E-07	440110.9	3760465.2	193.7	3.66	2.33
2.89	YES							
L0016367		0	0.37090E-07	440115.9	3760465.3	193.7	3.66	2.33
2.89	YES							
L0016368		0	0.37090E-07	440120.9	3760465.3	193.7	3.66	2.33
2.89	YES							
L0016369		0	0.37090E-07	440125.9	3760465.3	193.7	3.66	2.33
2.89	YES							
L0016370		0	0.37090E-07	440130.9	3760465.3	193.8	3.66	2.33
2.89	YES							
L0016371		0	0.37090E-07	440135.9	3760465.3	193.8	3.66	2.33



SOL\_construction\_r.ADO

2.89	YES							
L0016372		0	0.37090E-07	440140.9	3760465.4	193.8	3.66	2.33
2.89	YES							
L0016373		0	0.37090E-07	440145.9	3760465.4	193.8	3.66	2.33
2.89	YES							
L0016374		0	0.37090E-07	440150.9	3760465.4	193.9	3.66	2.33
2.89	YES							
L0016375		0	0.37090E-07	440155.9	3760465.4	193.9	3.66	2.33
2.89	YES							
L0016376		0	0.37090E-07	440160.9	3760465.5	193.9	3.66	2.33
2.89	YES							
L0016377		0	0.37090E-07	440165.9	3760465.5	193.9	3.66	2.33
2.89	YES							
L0016378		0	0.37090E-07	440170.9	3760465.5	194.0	3.66	2.33
2.89	YES							
L0016379		0	0.37090E-07	440175.9	3760465.5	194.0	3.66	2.33

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						
L0016380		0	0.37090E-07	440180.9	3760465.6	194.0	3.66	2.33	
2.89	YES								
L0016381		0	0.37090E-07	440185.9	3760465.6	194.1	3.66	2.33	
2.89	YES								
L0016382		0	0.37090E-07	440190.9	3760465.6	194.1	3.66	2.33	
2.89	YES								
L0016383		0	0.37090E-07	440195.9	3760465.6	194.1	3.66	2.33	
2.89	YES								
L0016384		0	0.37090E-07	440200.9	3760465.7	194.1	3.66	2.33	
2.89	YES								
L0016385		0	0.37090E-07	440205.9	3760465.7	194.1	3.66	2.33	

SOL\_construction\_r.ADO

2.89	YES							
L0016386		0	0.37090E-07	440210.9	3760465.7	194.2	3.66	2.33
2.89	YES							
L0016387		0	0.37090E-07	440215.9	3760465.7	194.2	3.66	2.33
2.89	YES							
L0016388		0	0.37090E-07	440220.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016389		0	0.37090E-07	440225.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016390		0	0.37090E-07	440230.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016391		0	0.37090E-07	440235.9	3760465.8	194.3	3.66	2.33
2.89	YES							
L0016392		0	0.37090E-07	440240.9	3760465.9	194.3	3.66	2.33
2.89	YES							
L0016393		0	0.37090E-07	440245.9	3760465.9	194.3	3.66	2.33
2.89	YES							
L0016394		0	0.37090E-07	440250.9	3760465.9	194.4	3.66	2.33
2.89	YES							
L0016395		0	0.37090E-07	440255.9	3760465.9	194.4	3.66	2.33
2.89	YES							
L0016396		0	0.37090E-07	440260.9	3760466.0	194.4	3.66	2.33
2.89	YES							
L0016397		0	0.37090E-07	440265.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016398		0	0.37090E-07	440270.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016399		0	0.37090E-07	440275.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016400		0	0.37090E-07	440280.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016401		0	0.37090E-07	440285.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016402		0	0.37090E-07	440290.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016403		0	0.37090E-07	440295.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016404		0	0.37090E-07	440300.9	3760466.2	194.6	3.66	2.33
2.89	YES							
L0016405		0	0.37090E-07	440305.9	3760466.2	194.6	3.66	2.33
2.89	YES							
L0016406		0	0.37090E-07	440310.9	3760466.2	194.7	3.66	2.33
2.89	YES							
L0016407		0	0.37090E-07	440315.9	3760466.2	194.7	3.66	2.33
2.89	YES							
L0016408		0	0.37090E-07	440320.9	3760466.3	194.7	3.66	2.33
2.89	YES							
L0016409		0	0.37090E-07	440325.9	3760466.3	194.7	3.66	2.33

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2.89	YES	L0016410	0	0.37090E-07	440330.9	3760466.3	194.7	3.66	2.33
2.89	YES	L0016411	0	0.37090E-07	440335.9	3760466.3	194.8	3.66	2.33
2.89	YES	L0016412	0	0.37090E-07	440340.9	3760466.3	194.8	3.66	2.33
2.89	YES	L0016413	0	0.37090E-07	440345.9	3760466.4	194.8	3.66	2.33
2.89	YES	L0016414	0	0.37090E-07	440350.9	3760466.4	194.8	3.66	2.33
2.89	YES	L0016415	0	0.37090E-07	440355.9	3760466.4	194.8	3.66	2.33
2.89	YES	L0016416	0	0.37090E-07	440360.9	3760466.4	194.9	3.66	2.33
2.89	YES	L0016417	0	0.37090E-07	440365.9	3760466.5	194.9	3.66	2.33
2.89	YES	L0016418	0	0.37090E-07	440370.9	3760466.5	195.0	3.66	2.33
2.89	YES	L0016419	0	0.37090E-07	440375.9	3760466.5	195.1	3.66	2.33

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.							
(METERS)		BY							

2.89	YES	L0016420	0	0.37090E-07	440380.9	3760466.5	195.1	3.66	2.33
2.89	YES	L0016421	0	0.37090E-07	440385.9	3760466.6	195.2	3.66	2.33
2.89	YES	L0016422	0	0.37090E-07	440390.9	3760466.6	195.2	3.66	2.33
2.89	YES	L0016423	0	0.37090E-07	440395.9	3760466.6	195.2	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES							
L0016424		0	0.37090E-07	440400.9	3760466.6	195.2	3.66	2.33
2.89	YES							
L0016425		0	0.37090E-07	440405.9	3760466.7	195.3	3.66	2.33
2.89	YES							
L0016426		0	0.37090E-07	440410.9	3760466.7	195.3	3.66	2.33
2.89	YES							
L0016427		0	0.37090E-07	440415.9	3760466.7	195.2	3.66	2.33
2.89	YES							
L0016428		0	0.37090E-07	440420.9	3760466.7	195.2	3.66	2.33
2.89	YES							
L0016429		0	0.37090E-07	440425.9	3760466.8	195.2	3.66	2.33
2.89	YES							
L0016430		0	0.37090E-07	440430.9	3760466.8	195.1	3.66	2.33
2.89	YES							
L0016431		0	0.37090E-07	440435.9	3760466.8	195.1	3.66	2.33
2.89	YES							
L0016432		0	0.37090E-07	440440.9	3760466.8	195.1	3.66	2.33
2.89	YES							
L0016433		0	0.37090E-07	440445.9	3760466.8	195.1	3.66	2.33
2.89	YES							
L0016434		0	0.37090E-07	440450.9	3760466.9	195.1	3.66	2.33
2.89	YES							
L0016435		0	0.37090E-07	440455.9	3760466.9	195.1	3.66	2.33
2.89	YES							
L0016436		0	0.37090E-07	440460.9	3760466.9	195.1	3.66	2.33
2.89	YES							
L0016437		0	0.37090E-07	440465.9	3760466.9	195.1	3.66	2.33
2.89	YES							
L0016438		0	0.37090E-07	440470.9	3760467.0	195.1	3.66	2.33
2.89	YES							
L0016439		0	0.37090E-07	440475.9	3760467.0	195.2	3.66	2.33
2.89	YES							
L0016440		0	0.37090E-07	440480.9	3760467.0	195.2	3.66	2.33
2.89	YES							
L0016441		0	0.37090E-07	440485.9	3760467.0	195.2	3.66	2.33
2.89	YES							
L0016442		0	0.37090E-07	440490.9	3760467.1	195.2	3.66	2.33
2.89	YES							
L0016443		0	0.37090E-07	440495.9	3760467.1	195.2	3.66	2.33
2.89	YES							
L0016444		0	0.37090E-07	440500.9	3760467.1	195.2	3.66	2.33
2.89	YES							
L0016445		0	0.37090E-07	440505.9	3760467.1	195.2	3.66	2.33
2.89	YES							
L0016446		0	0.37090E-07	440510.9	3760467.1	195.2	3.66	2.33
2.89	YES							
L0016447		0	0.37090E-07	440515.9	3760467.1	195.2	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES							
L0016448		0	0.37090E-07	440520.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016449		0	0.37090E-07	440525.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016450		0	0.37090E-07	440530.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016451		0	0.37090E-07	440535.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016452		0	0.37090E-07	440540.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016453		0	0.37090E-07	440545.9	3760467.1	195.3	3.66	2.33
2.89	YES							
L0016454		0	0.37090E-07	440550.9	3760467.1	195.4	3.66	2.33
2.89	YES							
L0016455		0	0.37090E-07	440555.9	3760467.1	195.4	3.66	2.33
2.89	YES							
L0016456		0	0.37090E-07	440560.9	3760467.1	195.4	3.66	2.33
2.89	YES							
L0016457		0	0.37090E-07	440565.9	3760467.1	195.4	3.66	2.33
2.89	YES							
L0016458		0	0.37090E-07	440570.9	3760467.1	195.4	3.66	2.33
2.89	YES							
L0016459		0	0.37090E-07	440575.9	3760467.1	195.4	3.66	2.33

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\* \*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* \*\* VOLUME SOURCE DATA \* \*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	CATS.	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							
L0016460		0	0.37090E-07	440580.9	3760467.1	195.5	3.66	2.33	
2.89	YES								
L0016461		0	0.37090E-07	440585.9	3760467.1	195.5	3.66	2.33	

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2.89	YES							
L0016462		0	0.37090E-07	440590.9	3760467.1	195.5	3.66	2.33
2.89	YES							
L0016463		0	0.37090E-07	440595.9	3760467.1	195.5	3.66	2.33
2.89	YES							
L0016464		0	0.37090E-07	440600.9	3760467.1	195.5	3.66	2.33
2.89	YES							
L0016465		0	0.37090E-07	440605.9	3760467.1	195.5	3.66	2.33
2.89	YES							
L0016466		0	0.37090E-07	440610.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016467		0	0.37090E-07	440615.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016468		0	0.37090E-07	440620.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016469		0	0.37090E-07	440625.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016470		0	0.37090E-07	440630.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016471		0	0.37090E-07	440635.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016472		0	0.37090E-07	440640.9	3760467.1	195.6	3.66	2.33
2.89	YES							
L0016473		0	0.37090E-07	440645.9	3760467.1	195.7	3.66	2.33
2.89	YES							
L0016474		0	0.37090E-07	440650.9	3760467.1	195.7	3.66	2.33
2.89	YES							
L0016475		0	0.37090E-07	440655.9	3760467.1	195.7	3.66	2.33
2.89	YES							
L0016476		0	0.37090E-07	440660.9	3760467.1	195.7	3.66	2.33
2.89	YES							
L0016477		0	0.37090E-07	440665.9	3760467.1	195.7	3.66	2.33
2.89	YES							
L0016478		0	0.37090E-07	440670.9	3760467.1	195.8	3.66	2.33
2.89	YES							
L0016479		0	0.37090E-07	440675.9	3760467.1	195.8	3.66	2.33
2.89	YES							
L0016480		0	0.37090E-07	440680.9	3760467.1	195.8	3.66	2.33
2.89	YES							
L0016481		0	0.37090E-07	440685.9	3760467.1	195.8	3.66	2.33
2.89	YES							
L0016482		0	0.37090E-07	440690.9	3760467.1	195.9	3.66	2.33
2.89	YES							
L0016483		0	0.37090E-07	440695.9	3760467.1	195.9	3.66	2.33
2.89	YES							
L0016484		0	0.37090E-07	440700.9	3760467.1	195.9	3.66	2.33
2.89	YES							
L0016485		0	0.37090E-07	440705.9	3760467.1	195.9	3.66	2.33

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2.89	YES							
L0016486		0	0.37090E-07	440710.9	3760467.1	196.0	3.66	2.33
2.89	YES							
L0016487		0	0.37090E-07	440715.9	3760467.1	196.0	3.66	2.33
2.89	YES							
L0016488		0	0.37090E-07	440720.9	3760467.1	196.0	3.66	2.33
2.89	YES							
L0016489		0	0.37090E-07	440725.9	3760467.1	196.1	3.66	2.33
2.89	YES							
L0016490		0	0.37090E-07	440730.9	3760467.1	196.1	3.66	2.33
2.89	YES							
L0016491		0	0.37090E-07	440735.9	3760467.1	196.1	3.66	2.33
2.89	YES							
L0016492		0	0.37090E-07	440740.9	3760467.1	196.2	3.66	2.33
2.89	YES							
L0016493		0	0.37090E-07	440745.9	3760467.1	196.2	3.66	2.33
2.89	YES							
L0016494		0	0.37090E-07	440750.9	3760467.1	196.3	3.66	2.33
2.89	YES							
L0016495		0	0.37090E-07	440755.9	3760467.1	196.4	3.66	2.33
2.89	YES							
L0016496		0	0.37090E-07	440760.9	3760467.1	196.5	3.66	2.33
2.89	YES							
L0016497		0	0.37090E-07	440765.9	3760467.1	196.5	3.66	2.33
2.89	YES							
L0016498		0	0.37090E-07	440770.9	3760467.1	196.6	3.66	2.33
2.89	YES							
L0016499		0	0.37090E-07	440775.9	3760467.1	196.6	3.66	2.33
2.89	YES							

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

SOL\_construction\_r.ADO

L0016500	0	0.37090E-07	440780.9	3760467.1	196.7	3.66	2.33
2.89 YES							
L0016501	0	0.37090E-07	440785.9	3760467.0	196.7	3.66	2.33
2.89 YES							
L0016502	0	0.37090E-07	440790.9	3760467.0	196.7	3.66	2.33
2.89 YES							
L0016503	0	0.37090E-07	440795.9	3760466.9	196.7	3.66	2.33
2.89 YES							
L0016504	0	0.37090E-07	440800.9	3760466.9	196.7	3.66	2.33
2.89 YES							
L0016505	0	0.37090E-07	440805.9	3760466.9	196.7	3.66	2.33
2.89 YES							
L0016506	0	0.37090E-07	440810.9	3760466.8	196.7	3.66	2.33
2.89 YES							
L0016507	0	0.37090E-07	440815.9	3760466.8	196.7	3.66	2.33
2.89 YES							
L0016508	0	0.37090E-07	440820.9	3760466.7	196.6	3.66	2.33
2.89 YES							
L0016509	0	0.37090E-07	440825.9	3760466.7	196.7	3.66	2.33
2.89 YES							
L0016510	0	0.37090E-07	440830.9	3760466.7	196.7	3.66	2.33
2.89 YES							
L0016511	0	0.37090E-07	440835.9	3760466.6	196.7	3.66	2.33
2.89 YES							
L0016512	0	0.37090E-07	440840.9	3760466.6	196.8	3.66	2.33
2.89 YES							
L0016513	0	0.37090E-07	440845.9	3760466.5	196.8	3.66	2.33
2.89 YES							
L0016514	0	0.37090E-07	440850.9	3760466.5	196.8	3.66	2.33
2.89 YES							
L0016515	0	0.37090E-07	440855.9	3760466.5	196.9	3.66	2.33
2.89 YES							
L0016516	0	0.37090E-07	440860.9	3760466.4	196.9	3.66	2.33
2.89 YES							
L0016517	0	0.37090E-07	440865.9	3760466.4	196.9	3.66	2.33
2.89 YES							
L0016518	0	0.37090E-07	440870.9	3760466.4	197.0	3.66	2.33
2.89 YES							
L0016519	0	0.37090E-07	440875.9	3760466.3	197.0	3.66	2.33
2.89 YES							
L0016520	0	0.37090E-07	440880.9	3760466.3	197.1	3.66	2.33
2.89 YES							
L0016521	0	0.37090E-07	440885.9	3760466.2	197.1	3.66	2.33
2.89 YES							
L0016522	0	0.37090E-07	440890.9	3760466.2	197.2	3.66	2.33
2.89 YES							
L0016523	0	0.37090E-07	440895.9	3760466.2	197.2	3.66	2.33



SOL\_construction\_r.ADO

2.89	YES							
L0016524		0	0.37090E-07	440900.9	3760466.1	197.3	3.66	2.33
2.89	YES							
L0016525		0	0.37090E-07	440905.9	3760466.1	197.3	3.66	2.33
2.89	YES							
L0016526		0	0.37090E-07	440910.9	3760466.0	197.4	3.66	2.33
2.89	YES							
L0016527		0	0.37090E-07	440915.9	3760466.0	197.4	3.66	2.33
2.89	YES							
L0016528		0	0.37090E-07	440920.9	3760466.0	197.5	3.66	2.33
2.89	YES							
L0016529		0	0.37090E-07	440925.9	3760466.0	197.5	3.66	2.33
2.89	YES							
L0016530		0	0.37090E-07	440930.9	3760466.0	197.5	3.66	2.33
2.89	YES							
L0016531		0	0.37090E-07	440935.9	3760466.0	197.5	3.66	2.33
2.89	YES							
L0016532		0	0.37090E-07	440940.9	3760466.1	197.5	3.66	2.33
2.89	YES							
L0016533		0	0.37090E-07	440945.9	3760466.1	197.6	3.66	2.33
2.89	YES							
L0016534		0	0.37090E-07	440950.9	3760466.1	197.6	3.66	2.33
2.89	YES							
L0016535		0	0.37090E-07	440955.9	3760466.1	197.6	3.66	2.33
2.89	YES							
L0016536		0	0.37090E-07	440960.9	3760466.1	197.6	3.66	2.33
2.89	YES							
L0016537		0	0.37090E-07	440965.9	3760466.2	197.6	3.66	2.33
2.89	YES							
L0016538		0	0.37090E-07	440970.9	3760466.2	197.6	3.66	2.33
2.89	YES							
L0016539		0	0.37090E-07	440975.9	3760466.2	197.6	3.66	2.33

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER EMISSION RATE	BASE	RELEASE	INIT.
SOURCE	SCALAR	EMISSION RATE	ELEV.	HEIGHT	SY
SZ	SOURCE	PART. (GRAMS/SEC)	X	Y	
		SCALAR VARY			

SOL\_construction\_r.ADO

ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS)  
 BY

-----

L0016540	0	0.37090E-07	440980.9	3760466.2	197.7	3.66	2.33
2.89 YES							
L0016541	0	0.37090E-07	440985.9	3760466.3	197.7	3.66	2.33
2.89 YES							
L0016542	0	0.37090E-07	440990.9	3760466.3	197.7	3.66	2.33
2.89 YES							
L0016543	0	0.37090E-07	440995.9	3760466.3	197.7	3.66	2.33
2.89 YES							
L0016544	0	0.37090E-07	441000.9	3760466.3	197.8	3.66	2.33
2.89 YES							
L0016545	0	0.37090E-07	441005.9	3760466.4	197.8	3.66	2.33
2.89 YES							
L0016546	0	0.37090E-07	441010.9	3760466.4	197.8	3.66	2.33
2.89 YES							
L0016547	0	0.37090E-07	441015.9	3760466.4	197.9	3.66	2.33
2.89 YES							
L0016548	0	0.37090E-07	441020.9	3760466.4	197.9	3.66	2.33
2.89 YES							
L0016549	0	0.37090E-07	441025.9	3760466.4	197.9	3.66	2.33
2.89 YES							
L0016550	0	0.37090E-07	441030.9	3760466.5	197.9	3.66	2.33
2.89 YES							
L0016551	0	0.37090E-07	441035.9	3760466.5	198.0	3.66	2.33
2.89 YES							
L0016552	0	0.37090E-07	441040.9	3760466.5	198.0	3.66	2.33
2.89 YES							
L0016553	0	0.37090E-07	441045.9	3760466.5	198.0	3.66	2.33
2.89 YES							
L0016554	0	0.37090E-07	441050.9	3760466.6	198.1	3.66	2.33
2.89 YES							
L0016555	0	0.37090E-07	441055.9	3760466.6	198.1	3.66	2.33
2.89 YES							
L0016556	0	0.37090E-07	441060.9	3760466.6	198.1	3.66	2.33
2.89 YES							
L0016557	0	0.37090E-07	441065.9	3760466.6	198.2	3.66	2.33
2.89 YES							
L0016558	0	0.37090E-07	441070.9	3760466.7	198.2	3.66	2.33
2.89 YES							
L0016559	0	0.37090E-07	441075.9	3760466.7	198.2	3.66	2.33
2.89 YES							
L0016560	0	0.37090E-07	441080.9	3760466.7	198.3	3.66	2.33
2.89 YES							
L0016561	0	0.37090E-07	441085.9	3760466.7	198.3	3.66	2.33

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2.89	YES							
L0016562		0	0.37090E-07	441090.9	3760466.8	198.4	3.66	2.33
2.89	YES							
L0016563		0	0.37090E-07	441095.9	3760466.8	198.4	3.66	2.33
2.89	YES							
L0016564		0	0.37090E-07	441100.9	3760466.8	198.4	3.66	2.33
2.89	YES							
L0016565		0	0.37090E-07	441105.9	3760466.8	198.5	3.66	2.33
2.89	YES							
L0016566		0	0.37090E-07	441110.9	3760466.8	198.5	3.66	2.33
2.89	YES							
L0016567		0	0.37090E-07	441115.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016568		0	0.37090E-07	441120.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016569		0	0.37090E-07	441125.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016570		0	0.37090E-07	441130.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016571		0	0.37090E-07	441135.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016572		0	0.37090E-07	441140.9	3760466.9	198.5	3.66	2.33
2.89	YES							
L0016573		0	0.37090E-07	441145.9	3760466.8	198.6	3.66	2.33
2.89	YES							
L0016574		0	0.37090E-07	441150.9	3760466.7	198.6	3.66	2.33
2.89	YES							
L0016575		0	0.37090E-07	441155.9	3760466.7	198.6	3.66	2.33
2.89	YES							
L0016576		0	0.37090E-07	441160.9	3760466.6	198.6	3.66	2.33
2.89	YES							
L0016577		0	0.37090E-07	441165.9	3760466.6	198.6	3.66	2.33
2.89	YES							
L0016578		0	0.37090E-07	441170.9	3760466.5	198.6	3.66	2.33
2.89	YES							
L0016579		0	0.37090E-07	441175.9	3760466.5	198.6	3.66	2.33

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOL\_construction\_r.ADO

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE	BASE	RELEASE	INIT.		
SZ	SOURCE	EMISSION RATE	PART. (GRAMS/SEC)	X	Y	SY		
ID	SOURCE	SCALAR VARY	CATS.	(METERS)	(METERS)	(METERS)		
(METERS)		BY						
L0016580		0	0.37090E-07	441180.9	3760466.4	198.6	3.66	2.33
2.89	YES							
L0016581		0	0.37090E-07	441185.9	3760466.3	198.7	3.66	2.33
2.89	YES							
L0064036		0	0.37040E-07	441996.7	3760466.5	199.9	3.66	2.33
2.89	YES							
L0064037		0	0.37040E-07	442001.7	3760466.5	199.8	3.66	2.33
2.89	YES							
L0064038		0	0.37040E-07	442006.7	3760466.6	199.9	3.66	2.33
2.89	YES							
L0064039		0	0.37040E-07	442011.7	3760466.6	200.0	3.66	2.33
2.89	YES							
L0064040		0	0.37040E-07	442016.7	3760466.6	200.1	3.66	2.33
2.89	YES							
L0064041		0	0.37040E-07	442021.7	3760466.6	200.2	3.66	2.33
2.89	YES							
L0064042		0	0.37040E-07	442026.7	3760466.6	200.3	3.66	2.33
2.89	YES							
L0064043		0	0.37040E-07	442031.7	3760466.6	200.3	3.66	2.33
2.89	YES							
L0064044		0	0.37040E-07	442036.7	3760466.6	200.3	3.66	2.33
2.89	YES							
L0064045		0	0.37040E-07	442041.7	3760466.6	200.3	3.66	2.33
2.89	YES							
L0064046		0	0.37040E-07	442046.7	3760466.7	200.3	3.66	2.33
2.89	YES							
L0064047		0	0.37040E-07	442051.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064048		0	0.37040E-07	442056.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064049		0	0.37040E-07	442061.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064050		0	0.37040E-07	442066.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064051		0	0.37040E-07	442071.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064052		0	0.37040E-07	442076.7	3760466.7	200.4	3.66	2.33
2.89	YES							
L0064053		0	0.37040E-07	442081.7	3760466.7	200.4	3.66	2.33

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2.89	YES							
L0064054		0	0.37040E-07	442086.7	3760466.8	200.4	3.66	2.33
2.89	YES							
L0064055		0	0.37040E-07	442091.7	3760466.8	200.4	3.66	2.33
2.89	YES							
L0064056		0	0.37040E-07	442096.7	3760466.8	200.4	3.66	2.33
2.89	YES							
L0064057		0	0.37040E-07	442101.7	3760466.8	200.4	3.66	2.33
2.89	YES							
L0064058		0	0.37040E-07	442106.7	3760466.8	200.4	3.66	2.33
2.89	YES							
L0064059		0	0.37040E-07	442111.7	3760466.8	200.3	3.66	2.33
2.89	YES							
L0064060		0	0.37040E-07	442116.7	3760466.8	200.3	3.66	2.33
2.89	YES							
L0064061		0	0.37040E-07	442121.7	3760466.8	200.3	3.66	2.33
2.89	YES							
L0064062		0	0.37040E-07	442126.7	3760466.9	200.3	3.66	2.33
2.89	YES							
L0064063		0	0.37040E-07	442131.7	3760466.9	200.3	3.66	2.33
2.89	YES							
L0064064		0	0.37040E-07	442136.7	3760466.9	200.3	3.66	2.33
2.89	YES							
L0064065		0	0.37040E-07	442141.7	3760466.9	200.3	3.66	2.33
2.89	YES							
L0064066		0	0.37040E-07	442146.7	3760466.9	200.3	3.66	2.33
2.89	YES							
L0064067		0	0.37040E-07	442151.7	3760466.9	200.4	3.66	2.33
2.89	YES							
L0064068		0	0.37040E-07	442156.7	3760466.9	200.4	3.66	2.33
2.89	YES							
L0064069		0	0.37040E-07	442161.7	3760466.9	200.4	3.66	2.33
2.89	YES							
L0064070		0	0.37040E-07	442166.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064071		0	0.37040E-07	442171.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064072		0	0.37040E-07	442176.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064073		0	0.37040E-07	442181.7	3760467.0	200.4	3.66	2.33

2.89 YES  
▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
\*\*\* 03/08/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

SOL\_construction\_r.ADO

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION RATE	PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0064074		0	0.37040E-07	442186.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064075		0	0.37040E-07	442191.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064076		0	0.37040E-07	442196.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064077		0	0.37040E-07	442201.7	3760467.0	200.4	3.66	2.33
2.89	YES							
L0064078		0	0.37040E-07	442206.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064079		0	0.37040E-07	442211.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064080		0	0.37040E-07	442216.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064081		0	0.37040E-07	442221.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064082		0	0.37040E-07	442226.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064083		0	0.37040E-07	442231.7	3760467.1	200.4	3.66	2.33
2.89	YES							
L0064084		0	0.37040E-07	442236.7	3760467.1	200.5	3.66	2.33
2.89	YES							
L0064085		0	0.37040E-07	442241.7	3760467.1	200.5	3.66	2.33
2.89	YES							
L0064086		0	0.37040E-07	442246.7	3760467.2	200.5	3.66	2.33
2.89	YES							
L0064087		0	0.37040E-07	442251.7	3760467.2	200.5	3.66	2.33
2.89	YES							
L0064088		0	0.37040E-07	442256.7	3760467.2	200.5	3.66	2.33
2.89	YES							
L0064089		0	0.37040E-07	442261.7	3760467.2	200.6	3.66	2.33
2.89	YES							
L0064090		0	0.37040E-07	442266.7	3760467.2	200.6	3.66	2.33
2.89	YES							
L0064091		0	0.37040E-07	442271.7	3760467.2	200.6	3.66	2.33

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2.89	YES							
L0064092		0	0.37040E-07	442276.7	3760467.2	200.6	3.66	2.33
2.89	YES							
L0064093		0	0.37040E-07	442281.7	3760467.2	200.6	3.66	2.33
2.89	YES							
L0064094		0	0.37040E-07	442286.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064095		0	0.37040E-07	442291.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064096		0	0.37040E-07	442296.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064097		0	0.37040E-07	442301.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064098		0	0.37040E-07	442306.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064099		0	0.37040E-07	442311.7	3760467.3	200.7	3.66	2.33
2.89	YES							
L0064100		0	0.37040E-07	442316.7	3760467.3	200.8	3.66	2.33
2.89	YES							
L0064101		0	0.37040E-07	442321.7	3760467.3	200.8	3.66	2.33
2.89	YES							
L0064102		0	0.37040E-07	442326.7	3760467.4	200.8	3.66	2.33
2.89	YES							
L0064103		0	0.37040E-07	442331.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064104		0	0.37040E-07	442336.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064105		0	0.37040E-07	442341.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064106		0	0.37040E-07	442346.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0064107		0	0.37040E-07	442351.7	3760467.6	201.0	3.66	2.33
2.89	YES							
L0064108		0	0.37040E-07	442356.7	3760467.7	201.0	3.66	2.33
2.89	YES							
L0064109		0	0.37040E-07	442361.7	3760467.7	201.0	3.66	2.33
2.89	YES							
L0064110		0	0.37040E-07	442366.7	3760467.8	201.0	3.66	2.33
2.89	YES							
L0064111		0	0.37040E-07	442371.7	3760467.9	201.0	3.66	2.33
2.89	YES							
L0064112		0	0.37040E-07	442376.7	3760468.0	201.0	3.66	2.33
2.89	YES							
L0064113		0	0.37040E-07	442381.7	3760468.1	201.0	3.66	2.33

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* Construction  
   \*\*\*   03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY							
L0064114	0	0.37040E-07	442386.7	3760468.1	201.0	3.66	2.33		
2.89	YES								
L0064115	0	0.37040E-07	442391.7	3760468.2	201.0	3.66	2.33		
2.89	YES								
L0064116	0	0.37040E-07	442396.7	3760468.3	201.0	3.66	2.33		
2.89	YES								
L0064117	0	0.37040E-07	442401.7	3760468.4	201.1	3.66	2.33		
2.89	YES								
L0064118	0	0.37040E-07	442406.7	3760468.4	201.1	3.66	2.33		
2.89	YES								
L0064119	0	0.37040E-07	442411.7	3760468.5	201.1	3.66	2.33		
2.89	YES								
L0064120	0	0.37040E-07	442416.7	3760468.6	201.1	3.66	2.33		
2.89	YES								
L0064121	0	0.37040E-07	442421.7	3760468.7	201.1	3.66	2.33		
2.89	YES								
L0064122	0	0.37040E-07	442426.7	3760468.7	201.2	3.66	2.33		
2.89	YES								
L0064123	0	0.37040E-07	442431.7	3760468.8	201.2	3.66	2.33		
2.89	YES								
L0064124	0	0.37040E-07	442436.7	3760468.9	201.2	3.66	2.33		
2.89	YES								
L0064125	0	0.37040E-07	442441.7	3760469.0	201.2	3.66	2.33		
2.89	YES								
L0064126	0	0.37040E-07	442446.7	3760469.0	201.2	3.66	2.33		
2.89	YES								
L0064127	0	0.37040E-07	442451.7	3760469.1	201.2	3.66	2.33		
2.89	YES								
L0064128	0	0.37040E-07	442456.7	3760469.2	201.2	3.66	2.33		
2.89	YES								
L0064129	0	0.37040E-07	442461.7	3760469.3	201.2	3.66	2.33		



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2.89	YES							
L0064130		0	0.37040E-07	442466.7	3760469.3	201.2	3.66	2.33
2.89	YES							
L0064131		0	0.37040E-07	442471.7	3760469.4	201.2	3.66	2.33
2.89	YES							
L0064132		0	0.37040E-07	442476.7	3760469.5	201.2	3.66	2.33
2.89	YES							
L0064133		0	0.37040E-07	442481.7	3760469.6	201.1	3.66	2.33
2.89	YES							
L0064134		0	0.37040E-07	442486.7	3760469.6	201.1	3.66	2.33
2.89	YES							
L0064135		0	0.37040E-07	442491.7	3760469.7	201.1	3.66	2.33
2.89	YES							
L0064136		0	0.37040E-07	442496.7	3760469.8	201.1	3.66	2.33
2.89	YES							
L0064137		0	0.37040E-07	442501.7	3760469.9	201.1	3.66	2.33
2.89	YES							
L0064138		0	0.37040E-07	442506.7	3760469.9	201.1	3.66	2.33
2.89	YES							
L0064139		0	0.37040E-07	442511.7	3760469.8	201.1	3.66	2.33
2.89	YES							
L0064140		0	0.37040E-07	442516.7	3760469.8	201.1	3.66	2.33
2.89	YES							
L0064141		0	0.37040E-07	442521.7	3760469.7	201.1	3.66	2.33
2.89	YES							
L0064142		0	0.37040E-07	442526.7	3760469.7	201.1	3.66	2.33
2.89	YES							
L0064143		0	0.37040E-07	442531.7	3760469.6	201.1	3.66	2.33
2.89	YES							
L0064144		0	0.37040E-07	442536.7	3760469.6	201.1	3.66	2.33
2.89	YES							
L0064145		0	0.37040E-07	442541.7	3760469.5	201.0	3.66	2.33
2.89	YES							
L0064146		0	0.37040E-07	442546.7	3760469.5	201.0	3.66	2.33
2.89	YES							
L0064147		0	0.37040E-07	442551.7	3760469.4	201.0	3.66	2.33
2.89	YES							
L0064148		0	0.37040E-07	442556.7	3760469.4	201.0	3.66	2.33
2.89	YES							
L0064149		0	0.37040E-07	442561.7	3760469.3	201.0	3.66	2.33
2.89	YES							
L0064150		0	0.37040E-07	442566.7	3760469.3	201.0	3.66	2.33
2.89	YES							
L0064151		0	0.37040E-07	442571.7	3760469.2	201.0	3.66	2.33
2.89	YES							
L0064152		0	0.37040E-07	442576.7	3760469.2	201.0	3.66	2.33
2.89	YES							
L0064153		0	0.37040E-07	442581.7	3760469.1	200.9	3.66	2.33

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2.89 YES

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						
L0064154		0	0.37040E-07	442586.7	3760469.1	200.9	3.66	2.33	
2.89	YES								
L0064155		0	0.37040E-07	442591.7	3760469.0	200.9	3.66	2.33	
2.89	YES								
L0064156		0	0.37040E-07	442596.7	3760469.0	200.9	3.66	2.33	
2.89	YES								
L0064157		0	0.37040E-07	442601.7	3760468.9	200.9	3.66	2.33	
2.89	YES								
L0064158		0	0.37040E-07	442606.7	3760468.9	200.9	3.66	2.33	
2.89	YES								
L0064159		0	0.37040E-07	442611.7	3760468.8	200.9	3.66	2.33	
2.89	YES								
L0064160		0	0.37040E-07	442616.7	3760468.8	200.9	3.66	2.33	
2.89	YES								
L0064161		0	0.37040E-07	442621.7	3760468.7	200.9	3.66	2.33	
2.89	YES								
L0064162		0	0.37040E-07	442626.7	3760468.7	200.9	3.66	2.33	
2.89	YES								
L0064163		0	0.37040E-07	442631.7	3760468.6	200.9	3.66	2.33	
2.89	YES								
L0064164		0	0.37040E-07	442636.7	3760468.6	200.9	3.66	2.33	
2.89	YES								
L0064165		0	0.37040E-07	442641.7	3760468.5	200.9	3.66	2.33	
2.89	YES								
L0064166		0	0.37040E-07	442646.7	3760468.5	200.9	3.66	2.33	
2.89	YES								
L0064167		0	0.37040E-07	442651.7	3760468.4	200.9	3.66	2.33	

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2.89	YES							
L0064168		0	0.37040E-07	442656.7	3760468.4	200.9	3.66	2.33
2.89	YES							
L0064169		0	0.37040E-07	442661.7	3760468.3	200.9	3.66	2.33
2.89	YES							
L0064170		0	0.37040E-07	442666.7	3760468.3	200.9	3.66	2.33
2.89	YES							
L0064171		0	0.37040E-07	442671.7	3760468.2	200.9	3.66	2.33
2.89	YES							
L0064172		0	0.37040E-07	442676.7	3760468.2	200.8	3.66	2.33
2.89	YES							
L0064173		0	0.37040E-07	442681.7	3760468.1	200.8	3.66	2.33
2.89	YES							
L0064174		0	0.37040E-07	442686.7	3760468.1	200.8	3.66	2.33
2.89	YES							
L0064175		0	0.37040E-07	442691.7	3760468.0	200.8	3.66	2.33
2.89	YES							
L0064176		0	0.37040E-07	442696.7	3760468.0	200.8	3.66	2.33
2.89	YES							
L0064177		0	0.37040E-07	442701.7	3760467.9	200.8	3.66	2.33
2.89	YES							
L0064178		0	0.37040E-07	442706.7	3760467.9	200.8	3.66	2.33
2.89	YES							
L0064179		0	0.37040E-07	442711.7	3760467.8	200.8	3.66	2.33
2.89	YES							
L0064180		0	0.37040E-07	442716.7	3760467.8	200.8	3.66	2.33
2.89	YES							
L0064181		0	0.37040E-07	442721.7	3760467.7	200.8	3.66	2.33
2.89	YES							
L0064182		0	0.37040E-07	442726.7	3760467.7	200.9	3.66	2.33
2.89	YES							
L0064183		0	0.37040E-07	442731.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0064184		0	0.37040E-07	442736.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0064185		0	0.37040E-07	442741.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0064186		0	0.37040E-07	442746.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0064187		0	0.37040E-07	442751.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064188		0	0.37040E-07	442756.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064189		0	0.37040E-07	442761.7	3760467.3	200.9	3.66	2.33
2.89	YES							
L0064190		0	0.37040E-07	442766.7	3760467.3	200.8	3.66	2.33
2.89	YES							
L0064191		0	0.37040E-07	442771.7	3760467.2	200.8	3.66	2.33

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2.89 YES  
L0064192 0 0.37040E-07 442776.7 3760467.2 200.8 3.66 2.33

2.89 YES  
L0064193 0 0.37040E-07 442781.7 3760467.1 200.8 3.66 2.33

2.89 YES

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0064194 0 0.37040E-07 442786.7 3760467.1 200.8 3.66 2.33

2.89 YES

L0064195 0 0.37040E-07 442791.7 3760467.0 200.8 3.66 2.33

2.89 YES

L0064196 0 0.37040E-07 442796.7 3760467.0 200.8 3.66 2.33

2.89 YES

L0064197 0 0.37040E-07 442801.7 3760466.9 200.8 3.66 2.33

2.89 YES

L0064198 0 0.37040E-07 442806.7 3760466.9 200.8 3.66 2.33

2.89 YES

L0064199 0 0.37040E-07 442811.7 3760466.8 200.8 3.66 2.33

2.89 YES

L0064200 0 0.37040E-07 442816.7 3760466.8 200.8 3.66 2.33

2.89 YES

L0064201 0 0.37040E-07 442821.7 3760466.7 200.8 3.66 2.33

2.89 YES

L0064202 0 0.37040E-07 442826.7 3760466.7 200.8 3.66 2.33

2.89 YES

L0064203 0 0.37040E-07 442831.7 3760466.6 200.8 3.66 2.33

2.89 YES

L0064204 0 0.37040E-07 442836.7 3760466.6 200.9 3.66 2.33

2.89 YES

L0064205 0 0.37040E-07 442841.7 3760466.5 200.9 3.66 2.33

SOL\_construction\_r.ADO

2.89	YES							
L0064206		0	0.37040E-07	442846.7	3760466.5	200.9	3.66	2.33
2.89	YES							
L0064207		0	0.37040E-07	442851.7	3760466.4	200.9	3.66	2.33
2.89	YES							
L0064208		0	0.37040E-07	442856.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064209		0	0.37040E-07	442861.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064210		0	0.37040E-07	442866.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064211		0	0.37040E-07	442871.7	3760466.3	201.0	3.66	2.33
2.89	YES							
L0064212		0	0.37040E-07	442876.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064213		0	0.37040E-07	442881.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064214		0	0.37040E-07	442886.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064215		0	0.37040E-07	442891.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064216		0	0.37040E-07	442896.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064217		0	0.37040E-07	442901.7	3760466.2	201.1	3.66	2.33
2.89	YES							
L0064218		0	0.37040E-07	442906.7	3760466.2	201.1	3.66	2.33
2.89	YES							
L0064219		0	0.37040E-07	442911.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064220		0	0.37040E-07	442916.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064221		0	0.37040E-07	442921.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064222		0	0.37040E-07	442926.7	3760466.1	201.2	3.66	2.33
2.89	YES							
L0064223		0	0.37040E-07	442931.7	3760466.1	201.2	3.66	2.33
2.89	YES							
L0064224		0	0.37040E-07	442936.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064225		0	0.37040E-07	442941.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064226		0	0.37040E-07	442946.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064227		0	0.37040E-07	442951.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064228		0	0.37040E-07	442956.7	3760466.0	201.4	3.66	2.33
2.89	YES							
L0064229		0	0.37040E-07	442961.7	3760466.0	201.4	3.66	2.33

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2.89 YES  
 L0064230 0 0.37040E-07 442966.7 3760466.0 201.4 3.66 2.33  
 2.89 YES  
 L0064231 0 0.37040E-07 442971.7 3760466.0 201.4 3.66 2.33  
 2.89 YES  
 L0064232 0 0.37040E-07 442976.7 3760466.0 201.4 3.66 2.33  
 2.89 YES  
 L0064233 0 0.37040E-07 442981.7 3760466.0 201.5 3.66 2.33

2.89 YES  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0064234		0	0.37040E-07	442986.7	3760466.0	201.6	3.66	2.33
2.89	YES							
L0064235		0	0.37040E-07	442991.7	3760466.0	201.6	3.66	2.33
2.89	YES							
L0064236		0	0.37040E-07	442996.7	3760466.0	201.7	3.66	2.33
2.89	YES							
L0064237		0	0.37040E-07	443001.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064238		0	0.37040E-07	443006.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064239		0	0.37040E-07	443011.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064240		0	0.37040E-07	443016.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064241		0	0.37040E-07	443021.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064242		0	0.37040E-07	443026.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064243		0	0.37040E-07	443031.7	3760466.0	201.8	3.66	2.33

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2.89	YES							
L0064244		0	0.37040E-07	443036.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064245		0	0.37040E-07	443041.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064246		0	0.37040E-07	443046.7	3760466.0	201.7	3.66	2.33
2.89	YES							
L0064247		0	0.37040E-07	443051.7	3760466.0	201.7	3.66	2.33
2.89	YES							
L0064248		0	0.37040E-07	443056.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064249		0	0.37040E-07	443061.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064250		0	0.37040E-07	443066.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064251		0	0.37040E-07	443071.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064252		0	0.37040E-07	443076.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064253		0	0.37040E-07	443081.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064254		0	0.37040E-07	443086.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064255		0	0.37040E-07	443091.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064256		0	0.37040E-07	443096.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064257		0	0.37040E-07	443101.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064258		0	0.37040E-07	443106.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064259		0	0.37040E-07	443111.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064260		0	0.37040E-07	443116.7	3760466.1	201.9	3.66	2.33
2.89	YES							
L0064261		0	0.37040E-07	443121.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064262		0	0.37040E-07	443126.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064263		0	0.37040E-07	443131.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064264		0	0.37040E-07	443136.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064265		0	0.37040E-07	443141.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0064266		0	0.37040E-07	443146.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0064267		0	0.37040E-07	443151.7	3760466.2	202.0	3.66	2.33

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2.89	YES	L0064268	0	0.37040E-07	443156.7	3760466.2	202.0	3.66	2.33
2.89	YES	L0064269	0	0.37040E-07	443161.7	3760466.2	202.1	3.66	2.33
2.89	YES	L0064270	0	0.37040E-07	443166.7	3760466.2	202.1	3.66	2.33
2.89	YES	L0064271	0	0.37040E-07	443171.7	3760466.2	202.2	3.66	2.33
2.89	YES	L0064272	0	0.37040E-07	443176.7	3760466.2	202.2	3.66	2.33
2.89	YES	L0064273	0	0.37040E-07	443181.7	3760466.2	202.3	3.66	2.33

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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY	
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		CATS.	BY						
L0064274		0	0.37040E-07	443186.7	3760466.2	202.3	3.66	2.33	
2.89	YES	L0064275	0	0.37040E-07	443191.7	3760466.3	202.4	3.66	2.33
2.89	YES	L0064276	0	0.37040E-07	443196.7	3760466.3	202.5	3.66	2.33
2.89	YES	L0064277	0	0.37040E-07	443201.7	3760466.3	202.6	3.66	2.33
2.89	YES	L0064278	0	0.37040E-07	443206.7	3760466.3	202.7	3.66	2.33
2.89	YES	L0064279	0	0.37040E-07	443211.7	3760466.3	202.7	3.66	2.33
2.89	YES	L0064280	0	0.37040E-07	443216.7	3760466.3	202.7	3.66	2.33
2.89	YES	L0064281	0	0.37040E-07	443221.7	3760466.3	202.7	3.66	2.33



SOL\_construction\_r.ADO

2.89	YES							
L0064282		0	0.37040E-07	443226.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064283		0	0.37040E-07	443231.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064284		0	0.37040E-07	443236.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064285		0	0.37040E-07	443241.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064286		0	0.37040E-07	443246.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064287		0	0.37040E-07	443251.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064288		0	0.37040E-07	443256.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064289		0	0.37040E-07	443261.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064290		0	0.37040E-07	443266.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064291		0	0.37040E-07	443271.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064292		0	0.37040E-07	443276.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064293		0	0.37040E-07	443281.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064294		0	0.37040E-07	443286.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064295		0	0.37040E-07	443291.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064296		0	0.37040E-07	443296.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064297		0	0.37040E-07	443301.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064298		0	0.37040E-07	443306.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064299		0	0.37040E-07	443311.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064300		0	0.37040E-07	443316.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064301		0	0.37040E-07	443321.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064302		0	0.37040E-07	443326.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064303		0	0.37040E-07	443331.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064304		0	0.37040E-07	443336.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064305		0	0.37040E-07	443341.7	3760466.3	203.0	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES	L0064306	0	0.37040E-07	443346.7	3760466.3	203.0	3.66	2.33
2.89	YES	L0064307	0	0.37040E-07	443351.7	3760466.3	203.0	3.66	2.33
2.89	YES	L0064308	0	0.37040E-07	443356.7	3760466.3	203.1	3.66	2.33
2.89	YES	L0064309	0	0.37040E-07	443361.7	3760466.3	203.1	3.66	2.33
2.89	YES	L0064310	0	0.37040E-07	443366.7	3760466.3	203.1	3.66	2.33
2.89	YES	L0064311	0	0.37040E-07	443371.7	3760466.3	203.1	3.66	2.33
2.89	YES	L0064312	0	0.37040E-07	443376.7	3760466.3	203.1	3.66	2.33
2.89	YES	L0064313	0	0.37040E-07	443381.7	3760466.3	203.1	3.66	2.33

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0064314	0	0.37040E-07	443386.7	3760466.3	203.2	3.66	2.33		
2.89	YES	L0064315	0	0.37040E-07	443391.7	3760466.3	203.2	3.66	2.33
2.89	YES	L0064316	0	0.37040E-07	443396.7	3760466.2	203.2	3.66	2.33
2.89	YES	L0064317	0	0.37040E-07	443401.7	3760466.2	203.2	3.66	2.33
2.89	YES	L0064318	0	0.37040E-07	443406.7	3760466.2	203.2	3.66	2.33
2.89	YES	L0064319	0	0.37040E-07	443411.7	3760466.2	203.2	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES							
L0064320		0	0.37040E-07	443416.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064321		0	0.37040E-07	443421.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064322		0	0.37040E-07	443426.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064323		0	0.37040E-07	443431.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064324		0	0.37040E-07	443436.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064325		0	0.37040E-07	443441.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064326		0	0.37040E-07	443446.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064327		0	0.37040E-07	443451.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064328		0	0.37040E-07	443456.7	3760466.2	203.2	3.66	2.33
2.89	YES							
L0064329		0	0.37040E-07	443461.7	3760466.1	203.2	3.66	2.33
2.89	YES							
L0064330		0	0.37040E-07	443466.7	3760466.1	203.2	3.66	2.33
2.89	YES							
L0064331		0	0.37040E-07	443471.7	3760466.1	203.2	3.66	2.33
2.89	YES							
L0064332		0	0.37040E-07	443476.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064333		0	0.37040E-07	443481.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064334		0	0.37040E-07	443486.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064335		0	0.37040E-07	443491.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064336		0	0.37040E-07	443496.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064337		0	0.37040E-07	443501.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064338		0	0.37040E-07	443506.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064339		0	0.37040E-07	443511.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064340		0	0.37040E-07	443516.7	3760466.1	203.3	3.66	2.33
2.89	YES							
L0064341		0	0.37040E-07	443521.7	3760466.1	203.2	3.66	2.33
2.89	YES							
L0064342		0	0.37040E-07	443526.7	3760466.0	203.2	3.66	2.33
2.89	YES							
L0064343		0	0.37040E-07	443531.7	3760466.0	203.2	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES	L0064344	0	0.37040E-07	443536.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064345	0	0.37040E-07	443541.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064346	0	0.37040E-07	443546.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064347	0	0.37040E-07	443551.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064348	0	0.37040E-07	443556.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064349	0	0.37040E-07	443561.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064350	0	0.37040E-07	443566.7	3760466.0	203.2	3.66	2.33
2.89	YES	L0064351	0	0.37040E-07	443571.7	3760466.0	203.3	3.66	2.33
2.89	YES	L0064352	0	0.37040E-07	443576.7	3760466.0	203.3	3.66	2.33
2.89	YES	L0064353	0	0.37040E-07	443581.7	3760466.0	203.3	3.66	2.33

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY	
SZ	SOURCE	SCALAR	VARY		X	Y			
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							
L0064354		0	0.37040E-07	443586.7	3760466.0	203.3	3.66	2.33	
2.89	YES	L0064355	0	0.37040E-07	443591.7	3760465.9	203.3	3.66	2.33
2.89	YES	L0064356	0	0.37040E-07	443596.7	3760465.9	203.3	3.66	2.33
2.89	YES	L0064357	0	0.37040E-07	443601.7	3760465.9	203.3	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES							
L0064358		0	0.37040E-07	443606.7	3760465.9	203.3	3.66	2.33
2.89	YES							
L0064359		0	0.37040E-07	443611.7	3760465.9	203.3	3.66	2.33
2.89	YES							
L0064360		0	0.37040E-07	443616.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064361		0	0.37040E-07	443621.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064362		0	0.37040E-07	443626.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064363		0	0.37040E-07	443631.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064364		0	0.37040E-07	443636.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064365		0	0.37040E-07	443641.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064366		0	0.37040E-07	443646.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064367		0	0.37040E-07	443651.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064368		0	0.37040E-07	443656.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064369		0	0.37040E-07	443661.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064370		0	0.37040E-07	443666.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064371		0	0.37040E-07	443671.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064372		0	0.37040E-07	443676.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064373		0	0.37040E-07	443681.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064374		0	0.37040E-07	443686.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064375		0	0.37040E-07	443691.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064376		0	0.37040E-07	443696.7	3760466.1	203.5	3.66	2.33
2.89	YES							
L0064377		0	0.37040E-07	443701.7	3760466.1	203.6	3.66	2.33
2.89	YES							
L0064378		0	0.37040E-07	443706.7	3760466.1	203.6	3.66	2.33
2.89	YES							
L0064379		0	0.37040E-07	443711.7	3760466.2	203.6	3.66	2.33
2.89	YES							
L0064380		0	0.37040E-07	443716.7	3760466.2	203.6	3.66	2.33
2.89	YES							
L0064381		0	0.37040E-07	443721.7	3760466.2	203.6	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES	L0064382	0	0.37040E-07	443726.7	3760466.3	203.6	3.66	2.33
2.89	YES	L0064383	0	0.37040E-07	443731.7	3760466.3	203.6	3.66	2.33
2.89	YES	L0064384	0	0.37040E-07	443736.7	3760466.3	203.6	3.66	2.33
2.89	YES	L0064385	0	0.37040E-07	443741.7	3760466.4	203.6	3.66	2.33
2.89	YES	L0064386	0	0.37040E-07	443746.7	3760466.4	203.7	3.66	2.33
2.89	YES	L0064387	0	0.37040E-07	443751.7	3760466.4	203.7	3.66	2.33
2.89	YES	L0064388	0	0.37040E-07	443756.7	3760466.5	203.7	3.66	2.33
2.89	YES	L0064389	0	0.37040E-07	443761.7	3760466.5	203.7	3.66	2.33
2.89	YES	L0064390	0	0.37040E-07	443766.7	3760466.5	203.7	3.66	2.33
2.89	YES	L0064391	0	0.37040E-07	443771.7	3760466.6	203.7	3.66	2.33
2.89	YES	L0064392	0	0.37040E-07	443776.7	3760466.6	203.8	3.66	2.33
2.89	YES	L0064393	0	0.37040E-07	443781.7	3760466.6	203.8	3.66	2.33

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
ID	CATS.	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							
L0064394	0	0.37040E-07	443786.7	3760466.7	203.8	3.66	2.33		
2.89	YES	L0064395	0	0.37040E-07	443791.7	3760466.7	203.8	3.66	2.33

SOL\_construction\_r.ADO

2.89	YES							
L0064396		0	0.37040E-07	443796.7	3760466.7	203.9	3.66	2.33
2.89	YES							
L0064397		0	0.37040E-07	443801.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064398		0	0.37040E-07	443806.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064399		0	0.37040E-07	443811.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064400		0	0.37040E-07	443816.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064401		0	0.37040E-07	443821.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064402		0	0.37040E-07	443826.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064403		0	0.37040E-07	443831.7	3760467.0	204.0	3.66	2.33
2.89	YES							
L0064404		0	0.37040E-07	443836.7	3760467.0	204.0	3.66	2.33
2.89	YES							
L0064405		0	0.37040E-07	443841.7	3760467.0	204.1	3.66	2.33
2.89	YES							
L0064406		0	0.37040E-07	443846.7	3760467.1	204.1	3.66	2.33
2.89	YES							
L0064407		0	0.37040E-07	443851.7	3760467.1	204.1	3.66	2.33
2.89	YES							
L0064408		0	0.37040E-07	443856.7	3760467.1	204.2	3.66	2.33
2.89	YES							
L0064409		0	0.37040E-07	443861.7	3760467.2	204.2	3.66	2.33
2.89	YES							
L0064410		0	0.37040E-07	443866.7	3760467.2	204.2	3.66	2.33
2.89	YES							
L0064411		0	0.37040E-07	443871.7	3760467.2	204.3	3.66	2.33
2.89	YES							
L0064412		0	0.37040E-07	443876.7	3760467.3	204.3	3.66	2.33
2.89	YES							
L0064413		0	0.37040E-07	443881.7	3760467.3	204.3	3.66	2.33
2.89	YES							
L0042930		0	0.36147E-04	440839.7	3761204.0	203.0	3.83	34.88
3.56	YES							
L0042931		0	0.36147E-04	440840.1	3761129.0	202.3	3.83	34.88
3.56	YES							
L0042932		0	0.36147E-04	440840.6	3761054.0	201.6	3.83	34.88
3.56	YES							
L0042933		0	0.36147E-04	440841.0	3760979.0	200.7	3.83	34.88
3.56	YES							
L0042934		0	0.36147E-04	440841.4	3760904.0	200.2	3.83	34.88
3.56	YES							
L0042935		0	0.36147E-04	440841.9	3760829.0	199.8	3.83	34.88

SOL\_construction\_r.ADO

3.56	YES	L0042936	0	0.36147E-04	440842.3	3760754.0	199.3	3.83	34.88
3.56	YES	L0042937	0	0.36147E-04	440842.7	3760679.0	198.6	3.83	34.88
3.56	YES	L0042938	0	0.36147E-04	440843.2	3760604.0	197.9	3.83	34.88
3.56	YES	L0042939	0	0.36147E-04	440843.6	3760529.0	197.1	3.83	34.88
3.56	YES	L0042940	0	0.36147E-04	440891.8	3760503.6	197.6	3.83	34.88
3.56	YES	L0042941	0	0.36147E-04	440962.0	3760510.6	198.1	3.83	34.88
3.56	YES	L0042942	0	0.36147E-04	440962.6	3760585.6	198.8	3.83	34.88
3.56	YES	L0042943	0	0.36147E-04	440963.1	3760660.6	199.2	3.83	34.88
3.56	YES	L0042944	0	0.36147E-04	440963.7	3760735.6	199.7	3.83	34.88
3.56	YES	L0042945	0	0.36147E-04	440964.2	3760810.6	199.5	3.83	34.88
3.56	YES	L0042946	0	0.36147E-04	440964.7	3760885.6	201.3	3.83	34.88
3.56	YES	L0042947	0	0.36147E-04	440965.3	3760960.6	202.0	3.83	34.88
3.56	YES	L0042948	0	0.36147E-04	440965.8	3761035.6	202.9	3.83	34.88
3.56	YES	L0042949	0	0.36147E-04	440966.4	3761110.6	203.7	3.83	34.88

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					(METERS)



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L0042950	0	0.36147E-04	440966.9	3761185.6	204.4	3.83	34.88
3.56 YES							
L0042951	0	0.36147E-04	441023.0	3761203.7	203.5	3.83	34.88
3.56 YES							
L0042952	0	0.36147E-04	441098.0	3761202.5	203.6	3.83	34.88
3.56 YES							
L0042953	0	0.36147E-04	441101.5	3761132.0	203.3	3.83	34.88
3.56 YES							
L0042954	0	0.36147E-04	441100.3	3761057.1	202.8	3.83	34.88
3.56 YES							
L0042955	0	0.36147E-04	441099.1	3760982.1	202.1	3.83	34.88
3.56 YES							
L0042956	0	0.36147E-04	441097.9	3760907.1	201.5	3.83	34.88
3.56 YES							
L0042957	0	0.36147E-04	441096.7	3760832.1	201.1	3.83	34.88
3.56 YES							
L0042958	0	0.36147E-04	441095.6	3760757.1	200.5	3.83	34.88
3.56 YES							
L0042959	0	0.36147E-04	441094.4	3760682.1	200.5	3.83	34.88
3.56 YES							
L0042960	0	0.36147E-04	441093.2	3760607.1	200.0	3.83	34.88
3.56 YES							
L0042961	0	0.36147E-04	441092.0	3760532.1	199.4	3.83	34.88
3.56 YES							
L0042962	0	0.36147E-04	441153.8	3760518.7	199.5	3.83	34.88
3.56 YES							
L0042963	0	0.36147E-04	441224.2	3760522.9	199.3	3.83	34.88
3.56 YES							
L0042964	0	0.36147E-04	441224.3	3760597.9	200.2	3.83	34.88
3.56 YES							
L0042965	0	0.36147E-04	441224.3	3760672.9	200.6	3.83	34.88
3.56 YES							
L0042966	0	0.36147E-04	441224.4	3760747.9	201.1	3.83	34.88
3.56 YES							
L0042967	0	0.36147E-04	441224.4	3760822.9	201.5	3.83	34.88
3.56 YES							
L0042968	0	0.36147E-04	441224.5	3760897.9	202.0	3.83	34.88
3.56 YES							
L0042969	0	0.36147E-04	441224.5	3760972.9	202.4	3.83	34.88
3.56 YES							
L0042970	0	0.36147E-04	441224.6	3761047.9	202.9	3.83	34.88
3.56 YES							
L0042971	0	0.36147E-04	441224.6	3761122.9	203.4	3.83	34.88
3.56 YES							
L0042972	0	0.36147E-04	441224.7	3761197.9	203.8	3.83	34.88
3.56 YES							
L0042973	0	0.36147E-04	441275.3	3761221.5	204.1	3.83	34.88

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3.56	YES							
L0042974		0	0.36147E-04	441350.3	3761220.4	204.1	3.83	34.88
3.56	YES							
L0042975		0	0.36147E-04	441350.9	3761147.0	203.7	3.83	34.88
3.56	YES							
L0042976		0	0.36147E-04	441349.9	3761072.0	203.2	3.83	34.88
3.56	YES							
L0042977		0	0.36147E-04	441348.9	3760997.0	202.7	3.83	34.88
3.56	YES							
L0042978		0	0.36147E-04	441347.9	3760922.0	202.2	3.83	34.88
3.56	YES							
L0042979		0	0.36147E-04	441346.9	3760847.0	201.8	3.83	34.88
3.56	YES							
L0042980		0	0.36147E-04	441345.9	3760772.0	201.2	3.83	34.88
3.56	YES							
L0042981		0	0.36147E-04	441345.0	3760697.0	200.8	3.83	34.88
3.56	YES							
L0042982		0	0.36147E-04	441344.0	3760622.0	200.4	3.83	34.88
3.56	YES							
L0042983		0	0.36147E-04	441343.0	3760547.0	200.2	3.83	34.88
3.56	YES							
L0042984		0	0.36147E-04	441399.1	3760525.2	199.6	3.83	34.88
3.56	YES							
L0042985		0	0.36147E-04	441474.0	3760520.8	199.7	3.83	34.88
3.56	YES							
L0042986		0	0.36147E-04	441477.7	3760591.4	200.2	3.83	34.88
3.56	YES							
L0042987		0	0.36147E-04	441477.3	3760666.4	200.6	3.83	34.88
3.56	YES							
L0042988		0	0.36147E-04	441476.8	3760741.4	201.0	3.83	34.88
3.56	YES							
L0042989		0	0.36147E-04	441476.3	3760816.4	201.8	3.83	34.88

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER EMISSION RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION RATE	ELEV.	HEIGHT	SY
		PART. (GRAMS/SEC)	X	Y	
		SCALAR VARY			

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ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS)  
BY

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L0042990	0	0.36147E-04	441475.8	3760891.4	202.0	3.83	34.88
3.56 YES							
L0042991	0	0.36147E-04	441475.4	3760966.4	202.2	3.83	34.88
3.56 YES							
L0042992	0	0.36147E-04	441474.9	3761041.4	202.9	3.83	34.88
3.56 YES							
L0042993	0	0.36147E-04	441474.4	3761116.4	203.5	3.83	34.88
3.56 YES							
L0042994	0	0.36147E-04	441473.9	3761191.4	203.9	3.83	34.88
3.56 YES							
L0042995	0	0.36147E-04	441525.5	3761213.3	204.2	3.83	34.88
3.56 YES							
L0042996	0	0.36147E-04	441600.5	3761211.4	204.7	3.83	34.88
3.56 YES							
L0042997	0	0.36147E-04	441610.9	3761149.0	204.5	3.83	34.88
3.56 YES							
L0042998	0	0.36147E-04	441608.0	3761074.0	203.7	3.83	34.88
3.56 YES							
L0042999	0	0.36147E-04	441605.1	3760999.1	203.0	3.83	34.88
3.56 YES							
L0043000	0	0.36147E-04	441602.1	3760924.1	202.5	3.83	34.88
3.56 YES							
L0043001	0	0.36147E-04	441599.2	3760849.2	201.9	3.83	34.88
3.56 YES							
L0043002	0	0.36147E-04	441596.3	3760774.2	201.2	3.83	34.88
3.56 YES							
L0043003	0	0.36147E-04	441593.4	3760699.3	200.2	3.83	34.88
3.56 YES							
L0043004	0	0.36147E-04	441590.5	3760624.4	200.7	3.83	34.88
3.56 YES							
L0043005	0	0.36147E-04	441587.6	3760549.4	200.1	3.83	34.88
3.56 YES							
L0043006	0	0.36147E-04	441634.0	3760522.7	200.2	3.83	34.88
3.56 YES							
L0043007	0	0.36147E-04	441709.0	3760523.8	200.2	3.83	34.88
3.56 YES							
L0043008	0	0.36147E-04	441709.3	3760598.0	200.8	3.83	34.88
3.56 YES							
L0043009	0	0.36147E-04	441708.8	3760673.0	199.7	3.83	34.88
3.56 YES							
L0043010	0	0.36147E-04	441708.3	3760748.0	200.6	3.83	34.88
3.56 YES							
L0043011	0	0.36147E-04	441707.8	3760823.0	201.9	3.83	34.88

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3.56	YES							
L0043012		0	0.36147E-04	441707.2	3760898.0	202.2	3.83	34.88
3.56	YES							
L0043013		0	0.36147E-04	441706.7	3760973.0	202.7	3.83	34.88
3.56	YES							
L0043014		0	0.36147E-04	441706.2	3761048.0	203.2	3.83	34.88
3.56	YES							
L0043015		0	0.36147E-04	441705.7	3761123.0	203.6	3.83	34.88
3.56	YES							
L0043016		0	0.36147E-04	441705.2	3761198.0	204.8	3.83	34.88
3.56	YES							
L0043017		0	0.36147E-04	441749.2	3761227.4	205.0	3.83	34.88
3.56	YES							
L0043018		0	0.36147E-04	441803.6	3761205.3	205.1	3.83	34.88
3.56	YES							
L0043019		0	0.36147E-04	441803.7	3761130.3	204.4	3.83	34.88
3.56	YES							
L0043020		0	0.36147E-04	441803.7	3761055.3	203.9	3.83	34.88
3.56	YES							
L0043021		0	0.36147E-04	441803.8	3760980.3	203.2	3.83	34.88
3.56	YES							
L0043022		0	0.36147E-04	441803.8	3760905.3	202.7	3.83	34.88
3.56	YES							
L0043023		0	0.36147E-04	441803.9	3760830.3	202.1	3.83	34.88
3.56	YES							
L0043024		0	0.36147E-04	441804.0	3760755.3	201.5	3.83	34.88
3.56	YES							
L0043025		0	0.36147E-04	441804.0	3760680.3	201.6	3.83	34.88
3.56	YES							
L0043026		0	0.36147E-04	441804.1	3760605.3	200.9	3.83	34.88
3.56	YES							
L0043027		0	0.36147E-04	441804.1	3760530.3	200.1	3.83	34.88
3.56	YES							
L0043028		0	0.36147E-04	441862.8	3760512.6	199.9	3.83	34.88
3.56	YES							
L0043029		0	0.36147E-04	441912.1	3760537.0	200.1	3.83	34.88

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

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INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION RATE	PART.	(GRAMS/SEC)	X	Y	SY
SZ	SOURCE	SCALAR VARY			(METERS)	(METERS)	(METERS)
ID		CATS.			(METERS)	(METERS)	(METERS)
(METERS)		BY					

L0043030	0	0.36147E-04	441912.0	3760612.0	200.9	3.83	34.88
3.56	YES						
L0043031	0	0.36147E-04	441911.9	3760687.0	201.8	3.83	34.88
3.56	YES						
L0043032	0	0.36147E-04	441911.8	3760762.0	201.9	3.83	34.88
3.56	YES						
L0043033	0	0.36147E-04	441911.7	3760837.0	202.5	3.83	34.88
3.56	YES						
L0043034	0	0.36147E-04	441911.6	3760912.0	202.9	3.83	34.88
3.56	YES						
L0043035	0	0.36147E-04	441911.5	3760987.0	203.3	3.83	34.88
3.56	YES						
L0043036	0	0.36147E-04	441911.4	3761062.0	203.7	3.83	34.88
3.56	YES						
L0043037	0	0.36147E-04	441911.4	3761137.0	204.3	3.83	34.88
3.56	YES						
L0043038	0	0.36147E-04	441911.3	3761212.0	204.9	3.83	34.88
3.56	YES						

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\*\*\* MODELOPTs:    RegDFault   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

ALL	L0015628	,	L0015629	,	L0015630	,	L0015631	,	L0015632	,
L0015633	, L0015634	,	L0015635	,						
L0015641	, L0015642	,	L0015643	,	L0015636	,	L0015637	,	L0015638	,
					L0015639	,	L0015640	,		

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L0015649	L0015644 , L0015650	, L0015645 , L0015651	, L0015646 ,	, L0015647	, L0015648	,
L0015657	L0015652 , L0015658	, L0015653 , L0015659	, L0015654 ,	, L0015655	, L0015656	,
L0015665	L0015660 , L0015666	, L0015661 , L0015667	, L0015662 ,	, L0015663	, L0015664	,
L0015673	L0015668 , L0015674	, L0015669 , L0015675	, L0015670 ,	, L0015671	, L0015672	,
L0015681	L0015676 , L0015682	, L0015677 , L0015683	, L0015678 ,	, L0015679	, L0015680	,
L0015689	L0015684 , L0015690	, L0015685 , L0015691	, L0015686 ,	, L0015687	, L0015688	,
L0015697	L0015692 , L0015698	, L0015693 , L0015699	, L0015694 ,	, L0015695	, L0015696	,
L0015705	L0015700 , L0015706	, L0015701 , L0015707	, L0015702 ,	, L0015703	, L0015704	,
L0015713	L0015708 , L0015714	, L0015709 , L0015715	, L0015710 ,	, L0015711	, L0015712	,
L0015721	L0015716 , L0015722	, L0015717 , L0015723	, L0015718 ,	, L0015719	, L0015720	,
L0015729	L0015724 , L0015730	, L0015725 , L0015731	, L0015726 ,	, L0015727	, L0015728	,
L0015737	L0015732 , L0015738	, L0015733 , L0015739	, L0015734 ,	, L0015735	, L0015736	,
L0015745	L0015740 , L0015746	, L0015741 , L0015747	, L0015742 ,	, L0015743	, L0015744	,
L0015753	L0015748 , L0015754	, L0015749 , L0015755	, L0015750 ,	, L0015751	, L0015752	,
L0015761	L0015756 , L0015762	, L0015757 , L0015763	, L0015758 ,	, L0015759	, L0015760	,
L0015769	L0015764 , L0015770	, L0015765 , L0015771	, L0015766 ,	, L0015767	, L0015768	,

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L0015772 , L0015773 , L0015774 , L0015775 , L0015776 ,  
 L0015777 , L0015778 , L0015779 ,

L0015780 , L0015781 , L0015782 , L0015783 , L0015784 ,  
 L0015785 , L0015786 , L0015787 ,

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

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SRCGROUP ID  
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SOURCE IDs  
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L0015788 , L0015789 , L0015790 , L0015791 , L0015792 ,  
 L0015793 , L0015794 , L0015795 ,

L0015796 , L0015797 , L0015798 , L0015799 , L0015800 ,  
 L0015801 , L0015802 , L0015803 ,

L0015804 , L0015805 , L0015806 , L0015807 , L0015808 ,  
 L0015809 , L0015810 , L0015811 ,

L0015812 , L0042703 , L0042704 , L0042705 , L0042706 ,  
 L0042707 , L0042708 , L0042709 ,

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 L0042715 , L0042716 , L0042717 ,

L0042718 , L0042719 , L0042720 , L0042721 , L0042722 ,  
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 L0042739 , L0042740 , L0042741 ,

L0042742 , L0042743 , L0042744 , L0042745 , L0042746 ,  
 L0042747 , L0042748 , L0042749 ,

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L0042755     L0042750     , L0042751     , L0042752     , L0042753     , L0042754     ,  
          , L0042756     , L0042757     ,  
  
L0042763     L0042758     , L0042759     , L0042760     , L0042761     , L0042762     ,  
          , L0042764     , L0042765     ,  
  
L0042771     L0042766     , L0042767     , L0042768     , L0042769     , L0042770     ,  
          , L0042772     , L0042773     ,  
  
L0042779     L0042774     , L0042775     , L0042776     , L0042777     , L0042778     ,  
          , L0042780     , L0042781     ,  
  
L0016329     L0016324     , L0016325     , L0016326     , L0016327     , L0016328     ,  
          , L0016330     , L0016331     ,  
  
L0016337     L0016332     , L0016333     , L0016334     , L0016335     , L0016336     ,  
          , L0016338     , L0016339     ,  
  
L0016345     L0016340     , L0016341     , L0016342     , L0016343     , L0016344     ,  
          , L0016346     , L0016347     ,  
  
L0016353     L0016348     , L0016349     , L0016350     , L0016351     , L0016352     ,  
          , L0016354     , L0016355     ,  
  
L0016361     L0016356     , L0016357     , L0016358     , L0016359     , L0016360     ,  
          , L0016362     , L0016363     ,  
  
L0016369     L0016364     , L0016365     , L0016366     , L0016367     , L0016368     ,  
          , L0016370     , L0016371     ,  
  
L0016377     L0016372     , L0016373     , L0016374     , L0016375     , L0016376     ,  
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          , L0016379     ,

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\*\*\* MODELOPTs:     RegDEFAULT   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
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SOURCE IDs  
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L0016385	L0016380 , L0016386	, L0016381 , L0016387	, L0016382 ,	, L0016383	, L0016384	,
L0016393	L0016388 , L0016394	, L0016389 , L0016395	, L0016390 ,	, L0016391	, L0016392	,
L0016401	L0016396 , L0016402	, L0016397 , L0016403	, L0016398 ,	, L0016399	, L0016400	,
L0016409	L0016404 , L0016410	, L0016405 , L0016411	, L0016406 ,	, L0016407	, L0016408	,
L0016417	L0016412 , L0016418	, L0016413 , L0016419	, L0016414 ,	, L0016415	, L0016416	,
L0016425	L0016420 , L0016426	, L0016421 , L0016427	, L0016422 ,	, L0016423	, L0016424	,
L0016433	L0016428 , L0016434	, L0016429 , L0016435	, L0016430 ,	, L0016431	, L0016432	,
L0016441	L0016436 , L0016442	, L0016437 , L0016443	, L0016438 ,	, L0016439	, L0016440	,
L0016449	L0016444 , L0016450	, L0016445 , L0016451	, L0016446 ,	, L0016447	, L0016448	,
L0016457	L0016452 , L0016458	, L0016453 , L0016459	, L0016454 ,	, L0016455	, L0016456	,
L0016465	L0016460 , L0016466	, L0016461 , L0016467	, L0016462 ,	, L0016463	, L0016464	,
L0016473	L0016468 , L0016474	, L0016469 , L0016475	, L0016470 ,	, L0016471	, L0016472	,
L0016481	L0016476 , L0016482	, L0016477 , L0016483	, L0016478 ,	, L0016479	, L0016480	,
L0016489	L0016484 , L0016490	, L0016485 , L0016491	, L0016486 ,	, L0016487	, L0016488	,
L0016497	L0016492 , L0016498	, L0016493 , L0016499	, L0016494 ,	, L0016495	, L0016496	,
L0016505	L0016500 , L0016506	, L0016501 , L0016507	, L0016502 ,	, L0016503	, L0016504	,

SOL\_construction\_r.ADO

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L0016513      L0016508      , L0016509      , L0016510      , L0016511      , L0016512      ,
, L0016514      , L0016515      ,

L0016521      L0016516      , L0016517      , L0016518      , L0016519      , L0016520      ,
, L0016522      , L0016523      ,

L0016529      L0016524      , L0016525      , L0016526      , L0016527      , L0016528      ,
, L0016530      , L0016531      ,

L0016537      L0016532      , L0016533      , L0016534      , L0016535      , L0016536      ,
, L0016538      , L0016539      ,
^ *** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0016545	L0016540 , L0016541 , L0016542 , L0016543 , L0016544 , , L0016546 , L0016547 ,
L0016553	L0016548 , L0016549 , L0016550 , L0016551 , L0016552 , , L0016554 , L0016555 ,
L0016561	L0016556 , L0016557 , L0016558 , L0016559 , L0016560 , , L0016562 , L0016563 ,
L0016569	L0016564 , L0016565 , L0016566 , L0016567 , L0016568 , , L0016570 , L0016571 ,
L0016577	L0016572 , L0016573 , L0016574 , L0016575 , L0016576 , , L0016578 , L0016579 ,
L0064039	L0016580 , L0016581 , L0064036 , L0064037 , L0064038 , , L0064040 , L0064041 ,
L0064047	L0064042 , L0064043 , L0064044 , L0064045 , L0064046 , , L0064048 , L0064049 ,

SOL\_construction\_r.ADO

L0064055 L0064050 , L0064051 , L0064052 , L0064053 , L0064054 ,  
 , L0064056 , L0064057 , ,

L0064063 L0064058 , L0064059 , L0064060 , L0064061 , L0064062 ,  
 , L0064064 , L0064065 , ,

L0064071 L0064066 , L0064067 , L0064068 , L0064069 , L0064070 ,  
 , L0064072 , L0064073 , ,

L0064079 L0064074 , L0064075 , L0064076 , L0064077 , L0064078 ,  
 , L0064080 , L0064081 , ,

L0064087 L0064082 , L0064083 , L0064084 , L0064085 , L0064086 ,  
 , L0064088 , L0064089 , ,

L0064095 L0064090 , L0064091 , L0064092 , L0064093 , L0064094 ,  
 , L0064096 , L0064097 , ,

L0064103 L0064098 , L0064099 , L0064100 , L0064101 , L0064102 ,  
 , L0064104 , L0064105 , ,

L0064111 L0064106 , L0064107 , L0064108 , L0064109 , L0064110 ,  
 , L0064112 , L0064113 , ,

L0064119 L0064114 , L0064115 , L0064116 , L0064117 , L0064118 ,  
 , L0064120 , L0064121 , ,

L0064127 L0064122 , L0064123 , L0064124 , L0064125 , L0064126 ,  
 , L0064128 , L0064129 , ,

L0064135 L0064130 , L0064131 , L0064132 , L0064133 , L0064134 ,  
 , L0064136 , L0064137 , ,

L0064143 L0064138 , L0064139 , L0064140 , L0064141 , L0064142 ,  
 , L0064144 , L0064145 , ,

L0064151 L0064146 , L0064147 , L0064148 , L0064149 , L0064150 ,  
 , L0064152 , L0064153 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
 \*\*\* 03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:14:46

SOL\_construction\_r.ADO

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
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L0064159	L0064154	, L0064155	, L0064156	, L0064157	, L0064158	,
	, L0064160	, L0064161	,			
L0064167	L0064162	, L0064163	, L0064164	, L0064165	, L0064166	,
	, L0064168	, L0064169	,			
L0064175	L0064170	, L0064171	, L0064172	, L0064173	, L0064174	,
	, L0064176	, L0064177	,			
L0064183	L0064178	, L0064179	, L0064180	, L0064181	, L0064182	,
	, L0064184	, L0064185	,			
L0064191	L0064186	, L0064187	, L0064188	, L0064189	, L0064190	,
	, L0064192	, L0064193	,			
L0064199	L0064194	, L0064195	, L0064196	, L0064197	, L0064198	,
	, L0064200	, L0064201	,			
L0064207	L0064202	, L0064203	, L0064204	, L0064205	, L0064206	,
	, L0064208	, L0064209	,			
L0064215	L0064210	, L0064211	, L0064212	, L0064213	, L0064214	,
	, L0064216	, L0064217	,			
L0064223	L0064218	, L0064219	, L0064220	, L0064221	, L0064222	,
	, L0064224	, L0064225	,			
L0064231	L0064226	, L0064227	, L0064228	, L0064229	, L0064230	,
	, L0064232	, L0064233	,			
L0064239	L0064234	, L0064235	, L0064236	, L0064237	, L0064238	,
	, L0064240	, L0064241	,			
L0064247	L0064242	, L0064243	, L0064244	, L0064245	, L0064246	,
	, L0064248	, L0064249	,			
L0064255	L0064250	, L0064251	, L0064252	, L0064253	, L0064254	,
	, L0064256	, L0064257	,			
L0064263	L0064258	, L0064259	, L0064260	, L0064261	, L0064262	,
	, L0064264	, L0064265	,			

SOL\_construction\_r.ADO

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L0064271    L0064266 , L0064267 , L0064268 , L0064269 , L0064270 ,
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L0064279    L0064274 , L0064275 , L0064276 , L0064277 , L0064278 ,
            , L0064280 , L0064281 ,
L0064287    L0064282 , L0064283 , L0064284 , L0064285 , L0064286 ,
            , L0064288 , L0064289 ,
L0064295    L0064290 , L0064291 , L0064292 , L0064293 , L0064294 ,
            , L0064296 , L0064297 ,
L0064303    L0064298 , L0064299 , L0064300 , L0064301 , L0064302 ,
            , L0064304 , L0064305 ,
L0064311    L0064306 , L0064307 , L0064308 , L0064309 , L0064310 ,
            , L0064312 , L0064313 ,
^ *** AERMOD - VERSION 19191 *** *** Construction
            ***          03/08/21
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

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SRCGROUP ID                                SOURCE IDs
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L0064319    L0064314 , L0064315 , L0064316 , L0064317 , L0064318 ,
            , L0064320 , L0064321 ,
L0064327    L0064322 , L0064323 , L0064324 , L0064325 , L0064326 ,
            , L0064328 , L0064329 ,
L0064335    L0064330 , L0064331 , L0064332 , L0064333 , L0064334 ,
            , L0064336 , L0064337 ,
L0064343    L0064338 , L0064339 , L0064340 , L0064341 , L0064342 ,
            , L0064344 , L0064345 ,
L0064351    L0064346 , L0064347 , L0064348 , L0064349 , L0064350 ,
            , L0064352 , L0064353 ,

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SOL\_construction\_r.ADO

L0064359 L0064354 , L0064355 , L0064356 , L0064357 , L0064358 ,  
 , L0064360 , L0064361 , ,

L0064367 L0064362 , L0064363 , L0064364 , L0064365 , L0064366 ,  
 , L0064368 , L0064369 , ,

L0064375 L0064370 , L0064371 , L0064372 , L0064373 , L0064374 ,  
 , L0064376 , L0064377 , ,

L0064383 L0064378 , L0064379 , L0064380 , L0064381 , L0064382 ,  
 , L0064384 , L0064385 , ,

L0064391 L0064386 , L0064387 , L0064388 , L0064389 , L0064390 ,  
 , L0064392 , L0064393 , ,

L0064399 L0064394 , L0064395 , L0064396 , L0064397 , L0064398 ,  
 , L0064400 , L0064401 , ,

L0064407 L0064402 , L0064403 , L0064404 , L0064405 , L0064406 ,  
 , L0064408 , L0064409 , ,

L0042931 L0064410 , L0064411 , L0064412 , L0064413 , L0042930 ,  
 , L0042932 , L0042933 , ,

L0042939 L0042934 , L0042935 , L0042936 , L0042937 , L0042938 ,  
 , L0042940 , L0042941 , ,

L0042947 L0042942 , L0042943 , L0042944 , L0042945 , L0042946 ,  
 , L0042948 , L0042949 , ,

L0042955 L0042950 , L0042951 , L0042952 , L0042953 , L0042954 ,  
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L0042963 L0042958 , L0042959 , L0042960 , L0042961 , L0042962 ,  
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L0042971 L0042966 , L0042967 , L0042968 , L0042969 , L0042970 ,  
 , L0042972 , L0042973 , ,

L0042979 L0042974 , L0042975 , L0042976 , L0042977 , L0042978 ,  
 , L0042980 , L0042981 , ,

L0042987 L0042982 , L0042983 , L0042984 , L0042985 , L0042986 ,  
 , L0042988 , L0042989 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
 \*\*\* 03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0042995	L0042990 , L0042991 , L0042992 , L0042993 , L0042994 , L0042995 , L0042996 , L0042997 ,
L0043003	L0042998 , L0042999 , L0043000 , L0043001 , L0043002 , L0043003 , L0043004 , L0043005 ,
L0043011	L0043006 , L0043007 , L0043008 , L0043009 , L0043010 , L0043011 , L0043012 , L0043013 ,
L0043019	L0043014 , L0043015 , L0043016 , L0043017 , L0043018 , L0043019 , L0043020 , L0043021 ,
L0043027	L0043022 , L0043023 , L0043024 , L0043025 , L0043026 , L0043027 , L0043028 , L0043029 ,
L0043035	L0043030 , L0043031 , L0043032 , L0043033 , L0043034 , L0043035 , L0043036 , L0043037 ,
	L0043038 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
\*\*\* 03/08/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:14:46

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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SOL\_construction\_r.ADO

2035210. L0015628 , L0015629 , L0015630 , L0015631 ,  
 L0015632 , L0015633 , L0015634 ,  
 L0015635 ,  
  
 L0015636 , L0015637 , L0015638 , L0015639 , L0015640 ,  
 L0015641 , L0015642 , L0015643 ,  
  
 L0015644 , L0015645 , L0015646 , L0015647 , L0015648 ,  
 L0015649 , L0015650 , L0015651 ,  
  
 L0015652 , L0015653 , L0015654 , L0015655 , L0015656 ,  
 L0015657 , L0015658 , L0015659 ,  
  
 L0015660 , L0015661 , L0015662 , L0015663 , L0015664 ,  
 L0015665 , L0015666 , L0015667 ,  
  
 L0015668 , L0015669 , L0015670 , L0015671 , L0015672 ,  
 L0015673 , L0015674 , L0015675 ,  
  
 L0015676 , L0015677 , L0015678 , L0015679 , L0015680 ,  
 L0015681 , L0015682 , L0015683 ,  
  
 L0015684 , L0015685 , L0015686 , L0015687 , L0015688 ,  
 L0015689 , L0015690 , L0015691 ,  
  
 L0015692 , L0015693 , L0015694 , L0015695 , L0015696 ,  
 L0015697 , L0015698 , L0015699 ,  
  
 L0015700 , L0015701 , L0015702 , L0015703 , L0015704 ,  
 L0015705 , L0015706 , L0015707 ,  
  
 L0015708 , L0015709 , L0015710 , L0015711 , L0015712 ,  
 L0015713 , L0015714 , L0015715 ,  
  
 L0015716 , L0015717 , L0015718 , L0015719 , L0015720 ,  
 L0015721 , L0015722 , L0015723 ,  
  
 L0015724 , L0015725 , L0015726 , L0015727 , L0015728 ,  
 L0015729 , L0015730 , L0015731 ,  
  
 L0015732 , L0015733 , L0015734 , L0015735 , L0015736 ,  
 L0015737 , L0015738 , L0015739 ,  
  
 L0015740 , L0015741 , L0015742 , L0015743 , L0015744 ,  
 L0015745 , L0015746 , L0015747 ,  
  
 L0015748 , L0015749 , L0015750 , L0015751 , L0015752 ,  
 L0015753 , L0015754 , L0015755 ,



SOL\_construction\_r.ADO

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L0015761      L0015756      , L0015757      , L0015758      , L0015759      , L0015760      ,
              , L0015762      , L0015763      ,
L0015769      L0015764      , L0015765      , L0015766      , L0015767      , L0015768      ,
              , L0015770      , L0015771      ,
L0015777      L0015772      , L0015773      , L0015774      , L0015775      , L0015776      ,
              , L0015778      , L0015779      ,
L0015785      L0015780      , L0015781      , L0015782      , L0015783      , L0015784      ,
              , L0015786      , L0015787      ,
^ *** AERMOD - VERSION 19191 *** *** Construction
              ***          03/08/21
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0015793	L0015788 , L0015794	L0015789 , L0015790 , L0015791 , L0015792 , L0015795
L0015801	L0015796 , L0015802	L0015797 , L0015803 , L0015798 , L0015799 , L0015800
L0015809	L0015804 , L0015810	L0015805 , L0015811 , L0015806 , L0015807 , L0015808
L0042707	L0015812 , L0042708	L0042703 , L0042704 , L0042705 , L0042706 , L0042709
L0042715	L0042710 , L0042716	L0042711 , L0042717 , L0042712 , L0042713 , L0042714
L0042723	L0042718 , L0042724	L0042719 , L0042725 , L0042720 , L0042721 , L0042722
L0042731	L0042726 , L0042732	L0042727 , L0042733 , L0042728 , L0042729 , L0042730

SOL\_construction\_r.ADO

L0042739      L0042734 , L0042735 , L0042736 , L0042737 , L0042738 ,  
                 , L0042740 , L0042741 , , , , ,  
  
L0042747      L0042742 , L0042743 , L0042744 , L0042745 , L0042746 ,  
                 , L0042748 , L0042749 , , , , ,  
  
L0042755      L0042750 , L0042751 , L0042752 , L0042753 , L0042754 ,  
                 , L0042756 , L0042757 , , , , ,  
  
L0042763      L0042758 , L0042759 , L0042760 , L0042761 , L0042762 ,  
                 , L0042764 , L0042765 , , , , ,  
  
L0042771      L0042766 , L0042767 , L0042768 , L0042769 , L0042770 ,  
                 , L0042772 , L0042773 , , , , ,  
  
L0042779      L0042774 , L0042775 , L0042776 , L0042777 , L0042778 ,  
                 , L0042780 , L0042781 , , , , ,  
  
L0016329      L0016324 , L0016325 , L0016326 , L0016327 , L0016328 ,  
                 , L0016330 , L0016331 , , , , ,  
  
L0016337      L0016332 , L0016333 , L0016334 , L0016335 , L0016336 ,  
                 , L0016338 , L0016339 , , , , ,  
  
L0016345      L0016340 , L0016341 , L0016342 , L0016343 , L0016344 ,  
                 , L0016346 , L0016347 , , , , ,  
  
L0016353      L0016348 , L0016349 , L0016350 , L0016351 , L0016352 ,  
                 , L0016354 , L0016355 , , , , ,  
  
L0016361      L0016356 , L0016357 , L0016358 , L0016359 , L0016360 ,  
                 , L0016362 , L0016363 , , , , ,  
  
L0016369      L0016364 , L0016365 , L0016366 , L0016367 , L0016368 ,  
                 , L0016370 , L0016371 , , , , ,  
  
L0016377      L0016372 , L0016373 , L0016374 , L0016375 , L0016376 ,  
                 , L0016378 , L0016379 , , , , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
                                 \*\*\*   03/08/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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SOL\_construction\_r.ADO

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID -----	URBAN POP -----	SOURCE IDs -----				
L0016385	L0016380 , L0016386	, L0016381 , L0016387	, L0016382 ,	, L0016383	, L0016384 ,	
L0016393	L0016388 , L0016394	, L0016389 , L0016395	, L0016390 ,	, L0016391	, L0016392 ,	
L0016401	L0016396 , L0016402	, L0016397 , L0016403	, L0016398 ,	, L0016399	, L0016400 ,	
L0016409	L0016404 , L0016410	, L0016405 , L0016411	, L0016406 ,	, L0016407	, L0016408 ,	
L0016417	L0016412 , L0016418	, L0016413 , L0016419	, L0016414 ,	, L0016415	, L0016416 ,	
L0016425	L0016420 , L0016426	, L0016421 , L0016427	, L0016422 ,	, L0016423	, L0016424 ,	
L0016433	L0016428 , L0016434	, L0016429 , L0016435	, L0016430 ,	, L0016431	, L0016432 ,	
L0016441	L0016436 , L0016442	, L0016437 , L0016443	, L0016438 ,	, L0016439	, L0016440 ,	
L0016449	L0016444 , L0016450	, L0016445 , L0016451	, L0016446 ,	, L0016447	, L0016448 ,	
L0016457	L0016452 , L0016458	, L0016453 , L0016459	, L0016454 ,	, L0016455	, L0016456 ,	
L0016465	L0016460 , L0016466	, L0016461 , L0016467	, L0016462 ,	, L0016463	, L0016464 ,	
L0016473	L0016468 , L0016474	, L0016469 , L0016475	, L0016470 ,	, L0016471	, L0016472 ,	
L0016481	L0016476 , L0016482	, L0016477 , L0016483	, L0016478 ,	, L0016479	, L0016480 ,	
L0016489	L0016484 , L0016490	, L0016485 , L0016491	, L0016486 ,	, L0016487	, L0016488 ,	

SOL\_construction\_r.ADO

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L0016497    L0016492    , L0016493    , L0016494    , L0016495    , L0016496    ,
            , L0016498    , L0016499    ,
L0016505    L0016500    , L0016501    , L0016502    , L0016503    , L0016504    ,
            , L0016506    , L0016507    ,
L0016513    L0016508    , L0016509    , L0016510    , L0016511    , L0016512    ,
            , L0016514    , L0016515    ,
L0016521    L0016516    , L0016517    , L0016518    , L0016519    , L0016520    ,
            , L0016522    , L0016523    ,
L0016529    L0016524    , L0016525    , L0016526    , L0016527    , L0016528    ,
            , L0016530    , L0016531    ,
L0016537    L0016532    , L0016533    , L0016534    , L0016535    , L0016536    ,
            , L0016538    , L0016539    ,
^ *** AERMOD - VERSION 19191 *** *** Construction
            ***          03/08/21
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

```

URBAN ID    URBAN POP                                SOURCE IDs
-----
L0016545    L0016540    , L0016541    , L0016542    , L0016543    , L0016544    ,
            , L0016546    , L0016547    ,
L0016553    L0016548    , L0016549    , L0016550    , L0016551    , L0016552    ,
            , L0016554    , L0016555    ,
L0016561    L0016556    , L0016557    , L0016558    , L0016559    , L0016560    ,
            , L0016562    , L0016563    ,
L0016569    L0016564    , L0016565    , L0016566    , L0016567    , L0016568    ,
            , L0016570    , L0016571    ,
L0016577    L0016572    , L0016573    , L0016574    , L0016575    , L0016576    ,
            , L0016578    , L0016579    ,

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SOL\_construction\_r.ADO

L0064039 L0016580 , L0016581 , L0064036 , L0064037 , L0064038 ,  
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L0064071 L0064066 , L0064067 , L0064068 , L0064069 , L0064070 ,  
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L0064103 L0064098 , L0064099 , L0064100 , L0064101 , L0064102 ,  
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L0064119 L0064114 , L0064115 , L0064116 , L0064117 , L0064118 ,  
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L0064135 L0064130 , L0064131 , L0064132 , L0064133 , L0064134 ,  
 , L0064136 , L0064137 , ,

L0064143 L0064138 , L0064139 , L0064140 , L0064141 , L0064142 ,  
 , L0064144 , L0064145 , ,

L0064151 L0064146 , L0064147 , L0064148 , L0064149 , L0064150 ,  
 , L0064152 , L0064153 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0064159	L0064154 , L0064160	, L0064155 , L0064161	, L0064156 ,	, L0064157	, L0064158	,	
L0064167	L0064162 , L0064168	, L0064163 , L0064169	, L0064164 ,	, L0064165	, L0064166	,	
L0064175	L0064170 , L0064176	, L0064171 , L0064177	, L0064172 ,	, L0064173	, L0064174	,	
L0064183	L0064178 , L0064184	, L0064179 , L0064185	, L0064180 ,	, L0064181	, L0064182	,	
L0064191	L0064186 , L0064192	, L0064187 , L0064193	, L0064188 ,	, L0064189	, L0064190	,	
L0064199	L0064194 , L0064200	, L0064195 , L0064201	, L0064196 ,	, L0064197	, L0064198	,	
L0064207	L0064202 , L0064208	, L0064203 , L0064209	, L0064204 ,	, L0064205	, L0064206	,	
L0064215	L0064210 , L0064216	, L0064211 , L0064217	, L0064212 ,	, L0064213	, L0064214	,	
L0064223	L0064218 , L0064224	, L0064219 , L0064225	, L0064220 ,	, L0064221	, L0064222	,	
L0064231	L0064226 , L0064232	, L0064227 , L0064233	, L0064228 ,	, L0064229	, L0064230	,	
L0064239	L0064234 , L0064240	, L0064235 , L0064241	, L0064236 ,	, L0064237	, L0064238	,	
L0064247	L0064242 , L0064248	, L0064243 , L0064249	, L0064244 ,	, L0064245	, L0064246	,	

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L0064255 L0064250 , L0064251 , L0064252 , L0064253 , L0064254 ,  
 , L0064256 , L0064257 , ,  
 L0064263 L0064258 , L0064259 , L0064260 , L0064261 , L0064262 ,  
 , L0064264 , L0064265 , ,  
 L0064271 L0064266 , L0064267 , L0064268 , L0064269 , L0064270 ,  
 , L0064272 , L0064273 , ,  
 L0064279 L0064274 , L0064275 , L0064276 , L0064277 , L0064278 ,  
 , L0064280 , L0064281 , ,  
 L0064287 L0064282 , L0064283 , L0064284 , L0064285 , L0064286 ,  
 , L0064288 , L0064289 , ,  
 L0064295 L0064290 , L0064291 , L0064292 , L0064293 , L0064294 ,  
 , L0064296 , L0064297 , ,  
 L0064303 L0064298 , L0064299 , L0064300 , L0064301 , L0064302 ,  
 , L0064304 , L0064305 , ,  
 L0064311 L0064306 , L0064307 , L0064308 , L0064309 , L0064310 ,  
 , L0064312 , L0064313 ,

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs				
-----	-----	-----	-----	-----	-----	-----
L0064319	L0064314 , L0064320	L0064315 , L0064321	L0064316 ,	L0064317 ,	L0064318 ,	
L0064327	L0064322 , L0064328	L0064323 , L0064329	L0064324 ,	L0064325 ,	L0064326 ,	
L0064335	L0064330 , L0064336	L0064331 , L0064337	L0064332 ,	L0064333 ,	L0064334 ,	

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L0064343	L0064338 , L0064344	, L0064339 , L0064345	, L0064340 ,	, L0064341	, L0064342	,
L0064351	L0064346 , L0064352	, L0064347 , L0064353	, L0064348 ,	, L0064349	, L0064350	,
L0064359	L0064354 , L0064360	, L0064355 , L0064361	, L0064356 ,	, L0064357	, L0064358	,
L0064367	L0064362 , L0064368	, L0064363 , L0064369	, L0064364 ,	, L0064365	, L0064366	,
L0064375	L0064370 , L0064376	, L0064371 , L0064377	, L0064372 ,	, L0064373	, L0064374	,
L0064383	L0064378 , L0064384	, L0064379 , L0064385	, L0064380 ,	, L0064381	, L0064382	,
L0064391	L0064386 , L0064392	, L0064387 , L0064393	, L0064388 ,	, L0064389	, L0064390	,
L0064399	L0064394 , L0064400	, L0064395 , L0064401	, L0064396 ,	, L0064397	, L0064398	,
L0064407	L0064402 , L0064408	, L0064403 , L0064409	, L0064404 ,	, L0064405	, L0064406	,
L0042931	L0064410 , L0042932	, L0064411 , L0042933	, L0064412 ,	, L0064413	, L0042930	,
L0042939	L0042934 , L0042940	, L0042935 , L0042941	, L0042936 ,	, L0042937	, L0042938	,
L0042947	L0042942 , L0042948	, L0042943 , L0042949	, L0042944 ,	, L0042945	, L0042946	,
L0042955	L0042950 , L0042956	, L0042951 , L0042957	, L0042952 ,	, L0042953	, L0042954	,
L0042963	L0042958 , L0042964	, L0042959 , L0042965	, L0042960 ,	, L0042961	, L0042962	,
L0042971	L0042966 , L0042972	, L0042967 , L0042973	, L0042968 ,	, L0042969	, L0042970	,
L0042979	L0042974 , L0042980	, L0042975 , L0042981	, L0042976 ,	, L0042977	, L0042978	,



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L0042982 , L0042983 , L0042984 , L0042985 , L0042986 ,  
 L0042987 , L0042988 , L0042989 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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L0042995	L0042990 , L0042996	L0042991 , L0042992 , L0042993 , L0042994 ,
L0043003	L0042998 , L0043004	L0042999 , L0043000 , L0043001 , L0043002 ,
L0043011	L0043006 , L0043012	L0043007 , L0043008 , L0043009 , L0043010 ,
L0043019	L0043014 , L0043020	L0043015 , L0043016 , L0043017 , L0043018 ,
L0043027	L0043022 , L0043028	L0043023 , L0043024 , L0043025 , L0043026 ,
L0043035	L0043030 , L0043036	L0043031 , L0043032 , L0043033 , L0043034 ,
	L0043038	
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

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\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\*\* X-COORDINATES OF GRID \*\*\*  
(METERS)

439452.6, 439552.6, 439652.6, 439752.6, 439852.6,

\*\*\* Y-COORDINATES OF GRID \*\*\*  
(METERS)

3760842.0, 3760942.0, 3761042.0, 3761142.0, 3761242.0, 3761342.0, 3761442.0,  
3761542.0, 3761642.0, 3761742.0,  
3761842.0, 3761942.0, 3762042.0, 3762142.0, 3762242.0, 3762342.0, 3762442.0,  
3762542.0, 3762642.0, 3762742.0,

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\* ELEVATION HEIGHTS IN METERS \*

Y-COORD (METERS)	439452.62	439552.62	439652.62	439752.62	439852.62
3762741.97	216.10	216.80	217.40	217.70	218.20
3762641.97	214.90	215.60	215.90	216.20	216.70
3762541.97	214.30	214.80	215.00	215.30	215.40
3762441.97	213.50	213.40	213.60	213.80	214.30
3762341.97	211.70	212.00	212.40	212.90	213.10
3762241.97	210.50	210.80	211.50	212.00	211.60
3762141.97	209.80	210.30	211.00	211.70	210.70
3762041.97	208.90	209.30	209.00	209.40	209.40
3761941.97	208.20	208.80	207.70	207.60	208.30
3761841.97	206.20	206.30	207.10	206.80	207.40
3761741.97	205.00	205.50	206.40	205.90	206.50
3761641.97	204.30	204.70	204.90	205.30	205.70
3761541.97	202.90	203.40	203.80	204.60	205.00
3761441.97	202.60	203.00	203.20	203.70	203.90

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3761341.97	201.40	201.90	202.80	202.60	203.20
3761241.97	200.80	201.30	201.80	202.20	202.40
3761141.97	200.00	200.50	200.90	201.30	201.50
3761041.97	199.90	199.60	200.00	200.90	200.50
3760941.97	198.70	199.00	199.30	200.00	199.70
3760841.97	197.00	197.00	197.20	198.00	198.20

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\* HILL HEIGHT SCALES IN METERS \*

Y-COORD (METERS)	439452.62	439552.62	439652.62	439752.62	439852.62
---------------------	-----------	-----------	-----------	-----------	-----------

3762741.97	216.10	216.80	217.40	217.70	218.20
3762641.97	214.90	215.60	215.90	216.20	216.70
3762541.97	214.30	214.80	215.00	215.30	215.40
3762441.97	213.50	213.40	213.60	213.80	214.30
3762341.97	211.70	212.00	212.40	212.90	213.10
3762241.97	210.50	210.80	211.50	212.00	211.60
3762141.97	209.80	210.30	211.00	211.70	210.70
3762041.97	208.90	209.30	209.00	209.40	209.40
3761941.97	208.20	208.80	207.70	207.60	208.30
3761841.97	206.20	206.30	207.10	206.80	207.40
3761741.97	205.00	205.50	206.40	205.90	206.50
3761641.97	204.30	204.70	204.90	205.30	205.70
3761541.97	202.90	203.40	203.80	204.60	205.00
3761441.97	202.60	203.00	203.20	203.70	203.90
3761341.97	201.40	201.90	202.80	202.60	203.20
3761241.97	200.80	201.30	201.80	202.20	202.40
3761141.97	200.00	200.50	200.90	201.30	201.50
3761041.97	199.90	199.60	200.00	200.90	200.50
3760941.97	198.70	199.00	199.30	200.00	199.70
3760841.97	197.00	197.00	197.20	198.00	198.20

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

( 439915.2, 3757928.3, 174.6, 174.6, 0.0); ( 440215.2,  
 3758078.3, 175.7, 175.7, 0.0);  
 ( 439815.2, 3759928.3, 189.9, 189.9, 0.0); ( 439815.2,  
 3759978.3, 190.2, 190.2, 0.0);  
 ( 439815.2, 3760028.3, 190.6, 190.6, 0.0); ( 439815.2,  
 3760078.3, 190.9, 190.9, 0.0);  
 ( 439815.2, 3760128.3, 191.2, 191.2, 0.0); ( 439815.2,  
 3760178.3, 191.6, 191.6, 0.0);  
 ( 443434.9, 3760505.4, 203.8, 203.8, 0.0); ( 443519.0,  
 3760505.4, 203.5, 203.5, 0.0);  
 ( 443548.3, 3760505.4, 203.5, 203.5, 0.0); ( 443736.5,  
 3760500.5, 203.9, 203.9, 0.0);  
 ( 443823.4, 3760503.2, 204.4, 204.4, 0.0); ( 442026.2,  
 3761011.9, 203.5, 203.5, 0.0);  
 ( 440165.2, 3761228.3, 203.2, 203.2, 0.0); ( 440215.2,  
 3761228.3, 203.4, 203.4, 0.0);  
 ( 440265.2, 3761228.3, 203.2, 203.2, 0.0); ( 440615.2,  
 3761228.3, 203.2, 203.2, 0.0);  
 ( 440665.2, 3761228.3, 203.4, 203.4, 0.0); ( 440715.2,  
 3761228.3, 203.3, 203.3, 0.0);  
 ( 442027.4, 3761229.6, 205.0, 205.0, 0.0); ( 442665.2,  
 3761228.3, 206.3, 206.3, 0.0);  
 ( 442865.2, 3761228.3, 206.6, 206.6, 0.0); ( 442965.2,  
 3761228.3, 206.5, 206.5, 0.0);  
 ( 443065.2, 3761228.3, 207.1, 207.1, 0.0); ( 443265.2,  
 3761228.3, 207.8, 207.8, 0.0);  
 ( 440263.7, 3761292.1, 203.3, 203.3, 0.0); ( 440322.1,  
 3761293.7, 203.4, 203.4, 0.0);  
 ( 440565.2, 3761299.8, 203.9, 203.9, 0.0); ( 440756.0,  
 3761299.0, 204.0, 204.0, 0.0);  
 ( 440968.3, 3761294.4, 204.2, 204.2, 0.0); ( 440862.1,  
 3761300.7, 204.2, 204.2, 0.0);  
 ( 442015.2, 3761328.3, 206.2, 206.2, 0.0); ( 441165.2,  
 3761378.3, 205.0, 205.0, 0.0);  
 ( 439948.6, 3761395.7, 203.7, 203.7, 0.0); ( 441215.2,  
 3761428.3, 205.5, 205.5, 0.0);  
 ( 442015.2, 3761428.3, 206.9, 206.9, 0.0); ( 440415.2,  
 3761478.3, 205.1, 205.1, 0.0);  
 ( 441965.2, 3761478.3, 207.7, 207.7, 0.0); ( 439933.9,  
 3761525.3, 205.2, 205.2, 0.0);

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( 441965.2, 3761528.3, 207.7, 207.7, 0.0);	( 442015.2,
3761528.3, 207.6, 207.6, 0.0);	
( 442065.2, 3761528.3, 207.9, 207.9, 0.0);	( 439948.3,
3761730.3, 206.9, 206.9, 0.0);	
( 439937.2, 3761960.1, 209.4, 209.4, 0.0);	( 439938.5,
3762030.3, 209.8, 209.8, 0.0);	
( 439942.0, 3762097.7, 210.5, 210.5, 0.0);	( 440115.2,
3762128.3, 210.9, 210.9, 0.0);	
( 440165.2, 3762128.3, 211.2, 211.2, 0.0);	( 440215.2,
3762128.3, 211.5, 211.5, 0.0);	
( 439965.2, 3762528.3, 215.5, 215.5, 0.0);	( 439965.2,
3762578.3, 216.4, 216.4, 0.0);	
( 439965.2, 3762628.3, 217.1, 217.1, 0.0);	( 439965.2,
3762678.3, 218.0, 218.0, 0.0);	
( 439965.2, 3763678.3, 229.4, 229.4, 0.0);	( 440065.2,
3763728.3, 229.9, 229.9, 0.0);	
( 440115.2, 3763728.3, 229.4, 229.4, 0.0);	( 440165.2,
3763728.3, 229.4, 229.4, 0.0);	
( 440215.2, 3763728.3, 229.2, 229.2, 0.0);	( 442023.5,
3761048.7, 203.7, 203.7, 0.0);	

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

(1=YES; 0=NO)

1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

SOL\_construction\_r.ADO

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: KCNO\_V9\_ADJU\KCNO\_v9.SFC Met Version: 16216 Profile file: KCNO\_V9\_ADJU\KCNO\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Name: UNKNOWN Year: 2012

Upper air station no.: 3190 Name: UNKNOWN Year: 2012

First 24 hours of scalar data

Table with 14 columns: YR MO DY JDY HR, H0, U\*, W\*, DT/DZ, ZICNV, ZIMCH, M-O LEN, Z0, BOWEN. It contains 5 rows of meteorological data for the first 24 hours.

SOL\_construction\_r.ADO

12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74
1.00	1.45	353.			7.9	279.9	2.0						
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74
1.00	1.38	325.			7.9	277.5	2.0						
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74
1.00	1.42	313.			7.9	281.4	2.0						
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74
0.53	1.23	19.			7.9	280.9	2.0						
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74
0.31	0.96	318.			7.9	287.5	2.0						
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74
0.24	0.63	244.			7.9	291.4	2.0						
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74
0.21	1.23	91.			7.9	296.4	2.0						
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74
0.20	1.60	90.			7.9	299.9	2.0						
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74
0.20	1.98	92.			7.9	302.0	2.0						
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74
0.21	1.50	73.			7.9	303.1	2.0						
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74
0.25	1.59	64.			7.9	303.1	2.0						
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74
0.34	2.61	92.			7.9	300.4	2.0						
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74
0.62	1.98	107.			7.9	295.4	2.0						
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74
1.00	3.22	134.			7.9	291.4	2.0						
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74
1.00	1.43	37.			7.9	290.4	2.0						
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74
1.00	1.40	49.			7.9	287.0	2.0						
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74
1.00	1.57	26.			7.9	288.8	2.0						
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74
1.00	1.11	56.			7.9	284.9	2.0						
12	01	01	1	23	-11.5	0.141	-9.000	-9.000	-999.	127.	21.9	0.09	0.74
1.00	1.69	36.			7.9	282.0	2.0						
12	01	01	1	24	-16.9	0.172	-9.000	-9.000	-999.	171.	32.4	0.09	0.74
1.00	2.03	33.			7.9	279.9	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	313.	0.73	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
\*\*\*

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0015628 , L0015629  
 , L0015630 , L0015631 , L0015632 ,  
 L0015633 , L0015634 , L0015635 , L0015636 , L0015637  
 , L0015638 , L0015639 , L0015640 ,  
 L0015641 , L0015642 , L0015643 , L0015644 , L0015645  
 , L0015646 , L0015647 , L0015648 ,  
 L0015649 , L0015650 , L0015651 , L0015652 , L0015653  
 , L0015654 , L0015655 , . . . ,

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)	439452.62	439552.62	439652.62	439752.62	X-COORD (METERS) 439852.62
---------------------	-----------	-----------	-----------	-----------	-------------------------------

3762741.97	0.00064	0.00065	0.00067	0.00070	0.00074
3762641.97	0.00068	0.00071	0.00074	0.00078	0.00093
3762541.97	0.00073	0.00076	0.00080	0.00086	0.00104
3762441.97	0.00078	0.00082	0.00086	0.00093	0.00112
3762341.97	0.00084	0.00088	0.00093	0.00101	0.00120
3762241.97	0.00090	0.00095	0.00100	0.00108	0.00130
3762141.97	0.00096	0.00101	0.00107	0.00115	0.00139
3762041.97	0.00103	0.00109	0.00118	0.00128	0.00151
3761941.97	0.00110	0.00116	0.00130	0.00143	0.00165
3761841.97	0.00122	0.00131	0.00139	0.00154	0.00178
3761741.97	0.00130	0.00139	0.00148	0.00165	0.00193
3761641.97	0.00137	0.00147	0.00161	0.00176	0.00206
3761541.97	0.00143	0.00155	0.00170	0.00187	0.00219
3761441.97	0.00148	0.00161	0.00177	0.00197	0.00232
3761341.97	0.00152	0.00167	0.00183	0.00206	0.00243
3761241.97	0.00156	0.00171	0.00190	0.00213	0.00253
3761141.97	0.00160	0.00176	0.00195	0.00219	0.00261
3761041.97	0.00163	0.00179	0.00199	0.00224	0.00267
3760941.97	0.00165	0.00182	0.00202	0.00228	0.00272



SOL\_construction\_r.ADO

3760841.97 | 0.00166 0.00183 0.00204 0.00231 0.00275  
 \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
 \*\*\*

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0015628 , L0015629  
 , L0015630 , L0015631 , L0015632 ,  
 L0015633 , L0015634 , L0015635 , L0015636 , L0015637  
 , L0015638 , L0015639 , L0015640 ,  
 L0015641 , L0015642 , L0015643 , L0015644 , L0015645  
 , L0015646 , L0015647 , L0015648 ,  
 L0015649 , L0015650 , L0015651 , L0015652 , L0015653  
 , L0015654 , L0015655 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
439915.21	3757928.34	0.00068	440215.21
3758078.34	0.00078		
439815.21	3759928.34	0.00204	439815.21
3759978.34	0.00209		
439815.21	3760028.34	0.00214	439815.21
3760078.34	0.00218		
439815.21	3760128.34	0.00223	439815.21
3760178.34	0.00227		
443434.87	3760505.41	0.00319	443519.04
3760505.41	0.00302		
443548.29	3760505.41	0.00296	443736.51
3760500.50	0.00267		
443823.40	3760503.23	0.00250	442026.18
3761011.86	0.03026		
440165.21	3761228.34	0.00340	440215.21
3761228.34	0.00364		
440265.21	3761228.34	0.00392	440615.21
3761228.34	0.00790		

SOL\_construction\_r.ADO

440665.21	3761228.34	0.00921	440715.21
3761228.34	0.01115		
442027.40	3761229.63	0.02277	442665.21
3761228.34	0.00677		
442865.21	3761228.34	0.00542	442965.21
3761228.34	0.00489		
443065.21	3761228.34	0.00448	443265.21
3761228.34	0.00377		
440263.68	3761292.14	0.00374	440322.11
3761293.68	0.00407		
440565.21	3761299.81	0.00624	440756.01
3761299.04	0.01031		
440968.28	3761294.45	0.01781	440862.15
3761300.73	0.01397		
442015.21	3761328.34	0.01561	441165.21
3761378.34	0.01390		
439948.61	3761395.68	0.00264	441215.21
3761428.34	0.01165		
442015.21	3761428.34	0.01070	440415.21
3761478.34	0.00381		
441965.21	3761478.34	0.00938	439933.91
3761525.28	0.00249		
441965.21	3761528.34	0.00807	442015.21
3761528.34	0.00784		
442065.21	3761528.34	0.00756	439948.29
3761730.30	0.00211		
439937.22	3761960.11	0.00178	439938.52
3762030.30	0.00169		
439941.98	3762097.71	0.00159	440115.21
3762128.34	0.00142		
440165.21	3762128.34	0.00142	440215.21
3762128.34	0.00144		
439965.21	3762528.34	0.00109	439965.21
3762578.34	0.00104		
439965.21	3762628.34	0.00098	439965.21
3762678.34	0.00090		
439965.21	3763678.34	0.00037	440065.21
3763728.34	0.00036		
440115.21	3763728.34	0.00037	440165.21
3763728.34	0.00037		
440215.21	3763728.34	0.00037	442023.45
3761048.68	0.03014		

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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SOL\_construction\_r.ADO

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0015628 , L0015629  
 , L0015630 , L0015631 , L0015632 ,  
 , L0015633 , L0015634 , L0015635 , L0015636 , L0015637  
 , L0015638 , L0015639 , L0015640 ,  
 , L0015641 , L0015642 , L0015643 , L0015644 , L0015645  
 , L0015646 , L0015647 , L0015648 ,  
 , L0015649 , L0015650 , L0015651 , L0015652 , L0015653  
 , L0015654 , L0015655 , . . . ,

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

Y-COORD				X-COORD (METERS)
(METERS)		439452.62	439552.62	439652.62
		439752.62	439852.62	

3762742.0	0.02472 (12081704)	0.02542 (12081704)	0.02609
(15091923)	0.02648 (15062721)	0.02710 (12080924)	
3762642.0	0.02447 (15082702)	0.02575 (12081704)	0.02630
(12081704)	0.02692 (15062721)	0.02767 (15062721)	
3762542.0	0.02499 (15031022)	0.02577 (15082702)	0.02683
(12081704)	0.02748 (12081704)	0.02832 (15062721)	
3762442.0	0.02571 (12071302)	0.02586 (15031022)	0.02668
(15082702)	0.02768 (12081704)	0.02877 (12081704)	
3762342.0	0.02551 (15101220)	0.02615 (12071302)	0.02675
(14120303)	0.02798 (15082702)	0.02919 (12081704)	
3762242.0	0.02506 (15101220)	0.02648 (15101220)	0.02766
(15101220)	0.02834 (12071302)	0.02924 (15082702)	
3762142.0	0.02548 (15091002)	0.02638 (16072304)	0.02833
(15101220)	0.02984 (15101220)	0.02966 (15101220)	
3762042.0	0.02535 (15091002)	0.02673 (15091002)	0.02692
(16102806)	0.02881 (15101220)	0.03021 (15101220)	
3761942.0	0.02481 (15072001)	0.02697 (15072001)	0.02561
(15072001)	0.02648 (15010620)	0.02915 (15101220)	
3761842.0	0.02194 (15090919)	0.02307 (16122818)	0.02583
(15072001)	0.02600 (15072001)	0.02859 (15010620)	
3761742.0	0.02148 (15090919)	0.02309 (15090919)	0.02494
(15090919)	0.02551 (16122818)	0.02783 (15072001)	
3761642.0	0.02166 (15112017)	0.02288 (15112017)	0.02417

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(15090919) 0.02617 (15090919) 0.02773 (15090919)
3761542.0 | 0.02255 (15063019) 0.02348 (15063019) 0.02450
(15112017) 0.02611 (15112017) 0.02794 (15090919)
3761442.0 | 0.02301 (15063019) 0.02439 (15063019) 0.02581
(15063019) 0.02725 (15063019) 0.02881 (15063019)
3761342.0 | 0.02309 (15031224) 0.02440 (15031224) 0.02589
(15031223) 0.02782 (15063019) 0.02992 (15063019)
3761242.0 | 0.02319 (15110717) 0.02454 (15110717) 0.02607
(15031224) 0.02790 (15031224) 0.02997 (15031224)
3761142.0 | 0.02331 (16022406) 0.02469 (16022406) 0.02623
(16032301) 0.02804 (15110717) 0.03019 (15110717)
3761042.0 | 0.02345 (16122920) 0.02480 (16122920) 0.02632
(16122920) 0.02811 (12121001) 0.03019 (12121001)
3760942.0 | 0.02403 (16102417) 0.02546 (16102417) 0.02706
(16102417) 0.02887 (16102417) 0.03093 (16102417)
3760842.0 | 0.02395 (16102417) 0.02538 (16102417) 0.02698
(16102417) 0.02883 (16102417) 0.03094 (16102417)

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL \*\*\*
INCLUDING SOURCE(S): L0015628 , L0015629
, L0015630 , L0015631 , L0015632 ,
L0015633 , L0015634 , L0015635 , L0015636 , L0015637
, L0015638 , L0015639 , L0015640 ,
L0015641 , L0015642 , L0015643 , L0015644 , L0015645
, L0015646 , L0015647 , L0015648 ,
L0015649 , L0015650 , L0015651 , L0015652 , L0015653
, L0015654 , L0015655 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
-----
439915.21 3757928.34 0.01059 (16112918) 440215.21
3758078.34 0.01158 (13101419)

SOL\_construction\_r.ADO

439815.21	3759928.34	0.02446	(16101918)	439815.21
3759978.34	0.02461	(16101918)		
439815.21	3760028.34	0.02536	(15071822)	439815.21
3760078.34	0.02610	(14051322)		
439815.21	3760128.34	0.02653	(14051322)	439815.21
3760178.34	0.02687	(15031321)		
443434.87	3760505.41	0.02309	(15082519)	443519.04
3760505.41	0.02207	(15082519)		
443548.29	3760505.41	0.02173	(15082519)	443736.51
3760500.50	0.01979	(15082519)		
443823.40	3760503.23	0.01907	(13090520)	442026.18
3761011.86	0.08237	(15101507)		
440165.21	3761228.34	0.03752	(15063019)	440215.21
3761228.34	0.03924	(15063019)		
440265.21	3761228.34	0.04109	(15063019)	440615.21
3761228.34	0.06066	(15063019)		
440665.21	3761228.34	0.06562	(15090919)	440715.21
3761228.34	0.07276	(15090919)		
442027.40	3761229.63	0.08097	(15062719)	442665.21
3761228.34	0.03885	(13090620)		
442865.21	3761228.34	0.03419	(15101304)	442965.21
3761228.34	0.03213	(15101304)		
443065.21	3761228.34	0.03152	(15101304)	443265.21
3761228.34	0.02963	(15082922)		
440263.68	3761292.14	0.04030	(15063019)	440322.11
3761293.68	0.04219	(15063019)		
440565.21	3761299.81	0.05400	(15090919)	440756.01
3761299.04	0.06723	(15031221)		
440968.28	3761294.45	0.07556	(13101421)	440862.15
3761300.73	0.06935	(15031221)		
442015.21	3761328.34	0.07167	(16061306)	441165.21
3761378.34	0.06206	(16102019)		
439948.61	3761395.68	0.03083	(15063019)	441215.21
3761428.34	0.05650	(13030120)		
442015.21	3761428.34	0.05999	(15070606)	440415.21
3761478.34	0.04018	(15031221)		
441965.21	3761478.34	0.05718	(16102717)	439933.91
3761525.28	0.02941	(15090919)		
441965.21	3761528.34	0.05283	(16102717)	442015.21
3761528.34	0.05242	(16102717)		
442065.21	3761528.34	0.05203	(15072106)	439948.29
3761730.30	0.02953	(15072001)		
439937.22	3761960.11	0.03178	(15101220)	439938.52
3762030.30	0.03116	(15101220)		
439941.98	3762097.71	0.03024	(15082702)	440115.21
3762128.34	0.03109	(12081704)		
440165.21	3762128.34	0.03159	(12081704)	440215.21
3762128.34	0.03221	(15062721)		

SOL\_construction\_r.ADO

439965.21	3762528.34	0.02840	(15062721)	439965.21
3762578.34	0.02823	(12080924)		
439965.21	3762628.34	0.02814	(12080924)	439965.21
3762678.34	0.02798	(12080924)		
439965.21	3763678.34	0.02269	(15091824)	440065.21
3763728.34	0.02265	(12081106)		
440115.21	3763728.34	0.02269	(12081106)	440165.21
3763728.34	0.02267	(12081106)		
440215.21	3763728.34	0.02249	(12081106)	442023.45
3761048.68	0.08320	(15101507)		

^ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
 \*\*\* 03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL  
 INCLUDING SOURCE(S): L0015628 , L0015629  
 , L0015630 , L0015631 , L0015632 ,  
 , L0015633 , L0015634 , L0015635 , L0015636 , L0015637  
 , L0015638 , L0015639 , L0015640 ,  
 , L0015641 , L0015642 , L0015643 , L0015644 , L0015645  
 , L0015646 , L0015647 , L0015648 ,  
 , L0015649 , L0015650 , L0015651 , L0015652 , L0015653  
 , L0015654 , L0015655 , . . . ,

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)	439452.62	439552.62	X-COORD (METERS) 439652.62
439752.62	439852.62		

-----

3762742.0	0.00577 (12020424)	0.00566 (12020424)	0.00544
(12020424)	0.00513 (12020424)	0.00471m(15011124)	
3762642.0	0.00610 (12020424)	0.00613 (12020424)	0.00604
(12020424)	0.00584 (12020424)	0.00568 (12020424)	
3762542.0	0.00634 (12020424)	0.00651 (12020424)	0.00655
(12020424)	0.00649 (12020424)	0.00646 (12020424)	
3762442.0	0.00644 (12020424)	0.00675 (12020424)	0.00696

SOL\_construction\_r.ADO

(12020424)	0.00706 (12020424)	0.00716 (12020424)	
3762342.0	0.00640 (12020424)	0.00686 (12020424)	0.00724
(12020424)	0.00751 (12020424)	0.00777 (12020424)	
3762242.0	0.00624 (12020424)	0.00684 (12020424)	0.00738
(12020424)	0.00784 (12020424)	0.00827 (12020424)	
3762142.0	0.00633 (12011324)	0.00670 (12020424)	0.00738
(12020424)	0.00802 (12020424)	0.00864 (12020424)	
3762042.0	0.00670 (12011324)	0.00695 (12011324)	0.00715
(12020424)	0.00795 (12020424)	0.00878 (12020424)	
3761942.0	0.00688 (12011324)	0.00740 (12011324)	0.00711
(12011324)	0.00762 (12020424)	0.00871 (12020424)	
3761842.0	0.00643 (12011324)	0.00684 (12011324)	0.00748
(12011324)	0.00765 (12011324)	0.00847 (12020424)	
3761742.0	0.00610 (12011324)	0.00676 (12011324)	0.00756
(12011324)	0.00789 (12011324)	0.00864 (12011324)	
3761642.0	0.00617 (12122024)	0.00651 (12011324)	0.00713
(12011324)	0.00797 (12011324)	0.00886 (12011324)	
3761542.0	0.00662 (12122024)	0.00702 (12122024)	0.00746
(12122024)	0.00794 (12122024)	0.00876 (12011324)	
3761442.0	0.00691 (12122024)	0.00741 (12122024)	0.00797
(12122024)	0.00860 (12122024)	0.00945 (12122024)	
3761342.0	0.00701 (12122024)	0.00760 (12122024)	0.00826
(12122024)	0.00902 (12122024)	0.01003 (12122024)	
3761242.0	0.00691 (12122024)	0.00755 (12122024)	0.00829
(12122024)	0.00914 (12122024)	0.01028 (12122024)	
3761142.0	0.00664 (12122024)	0.00731 (12122024)	0.00808
(12122024)	0.00899 (12122024)	0.01020 (12122024)	
3761042.0	0.00625 (12122024)	0.00690 (12122024)	0.00768
(12122024)	0.00861 (12122024)	0.00986 (12122024)	
3760942.0	0.00577 (12122024)	0.00640 (12122024)	0.00714
(12122024)	0.00806 (12122024)	0.00929 (12122024)	
3760842.0	0.00531 (12020624)	0.00583 (12122024)	0.00652
(12122024)	0.00738 (12122024)	0.00857 (12122024)	

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION \*\*\*  
INCLUDING SOURCE(S): L0015628 , L0015629  
, L0015630 , L0015631 , L0015632 ,  
, L0015633 , L0015634 , L0015635 , L0015636 , L0015637  
, L0015638 , L0015639 , L0015640 ,  
, L0015641 , L0015642 , L0015643 , L0015644 , L0015645

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, L0015646 , L0015647 , L0015648 ,  
 , L0015649 , L0015650 , L0015651 , L0015652 , L0015653  
 , L0015654 , L0015655 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
439915.21	3757928.34	0.00234	(15010624)	440215.21
3758078.34	0.00253	(13121424)		
439815.21	3759928.34	0.00806	(16122724)	439815.21
3759978.34	0.00821	(16122724)		
439815.21	3760028.34	0.00842	(14122624)	439815.21
3760078.34	0.00860	(14122624)		
439815.21	3760128.34	0.00873	(14122624)	439815.21
3760178.34	0.00880	(14122624)		
443434.87	3760505.41	0.00890	(13050124)	443519.04
3760505.41	0.00845	(13050124)		
443548.29	3760505.41	0.00830	(13050124)	443736.51
3760500.50	0.00749	(13050124)		
443823.40	3760503.23	0.00717	(13050124)	442026.18
3761011.86	0.04849	(13020624)		
440165.21	3761228.34	0.01368	(12122024)	440215.21
3761228.34	0.01449	(12122024)		
440265.21	3761228.34	0.01537	(12122024)	440615.21
3761228.34	0.02606	(12122024)		
440665.21	3761228.34	0.02914	(12122024)	440715.21
3761228.34	0.03342	(12122024)		
442027.40	3761229.63	0.04631	(12120224)	442665.21
3761228.34	0.01805m	(12050224)		
442865.21	3761228.34	0.01574m	(12050224)	442965.21
3761228.34	0.01474m	(12050224)		
443065.21	3761228.34	0.01409m	(12050224)	443265.21
3761228.34	0.01283m	(12050224)		
440263.68	3761292.14	0.01464	(12122024)	440322.11
3761293.68	0.01557	(12122024)		
440565.21	3761299.81	0.02094	(12011324)	440756.01
3761299.04	0.02908	(12020424)		
440968.28	3761294.45	0.03696	(13012524)	440862.15
3761300.73	0.03212	(13012524)		
442015.21	3761328.34	0.03696	(12120224)	441165.21
3761378.34	0.02633	(13012524)		



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439948.61	3761395.68	0.01021	(12122024)	441215.21
3761428.34	0.02240	(12120624)		
442015.21	3761428.34	0.02831m	(16031424)	440415.21
3761478.34	0.01440	(12020424)		
441965.21	3761478.34	0.02603m	(16031424)	439933.91
3761525.28	0.00923	(12011324)		
441965.21	3761528.34	0.02303m	(16031424)	442015.21
3761528.34	0.02279m	(16031424)		
442065.21	3761528.34	0.02268m	(16031424)	439948.29
3761730.30	0.00898	(12011324)		
439937.22	3761960.11	0.00918	(12020424)	439938.52
3762030.30	0.00905	(12020424)		
439941.98	3762097.71	0.00884	(12020424)	440115.21
3762128.34	0.00871	(12020424)		
440165.21	3762128.34	0.00863	(12020424)	440215.21
3762128.34	0.00850	(12020424)		
439965.21	3762528.34	0.00585	(12020424)	439965.21
3762578.34	0.00543	(12020424)		
439965.21	3762628.34	0.00517m	(15011124)	439965.21
3762678.34	0.00511m	(15011124)		
439965.21	3763678.34	0.00304m	(15011124)	440065.21
3763728.34	0.00275m	(15011124)		
440115.21	3763728.34	0.00265m	(15011124)	440165.21
3763728.34	0.00267	(12052224)		
440215.21	3763728.34	0.00267	(12052224)	442023.45
3761048.68	0.04894	(12120224)		

\*\*\* AERMOD - VERSION 19191 \*\*\* Construction  
 \*\*\* 03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848  
 HRS) RESULTS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3  
 \*\*

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	

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ALL	1ST HIGHEST VALUE IS	0.03026	AT (	442026.18,	3761011.86,
203.50,	203.50, 0.00)				
	2ND HIGHEST VALUE IS	0.03014	AT (	442023.45,	3761048.68,
203.71,	203.71, 0.00)				
	3RD HIGHEST VALUE IS	0.02277	AT (	442027.40,	3761229.63,
205.04,	205.04, 0.00)				
	4TH HIGHEST VALUE IS	0.01781	AT (	440968.28,	3761294.45,
204.23,	204.23, 0.00)				
	5TH HIGHEST VALUE IS	0.01561	AT (	442015.21,	3761328.34,
206.15,	206.15, 0.00)				
	6TH HIGHEST VALUE IS	0.01397	AT (	440862.15,	3761300.73,
204.20,	204.20, 0.00)				
	7TH HIGHEST VALUE IS	0.01390	AT (	441165.21,	3761378.34,
205.00,	205.00, 0.00)				
	8TH HIGHEST VALUE IS	0.01165	AT (	441215.21,	3761428.34,
205.47,	205.47, 0.00)				
	9TH HIGHEST VALUE IS	0.01115	AT (	440715.21,	3761228.34,
203.33,	203.33, 0.00)				
	10TH HIGHEST VALUE IS	0.01070	AT (	442015.21,	3761428.34,
206.90,	206.90, 0.00)				

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
 \*\*\* 03/08/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR

RESULTS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE NETWORK	(YYMMDDHH)	
	GRID-ID		
-----	-----	-----	-----
-----	-----	-----	-----

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ALL HIGH 1ST HIGH VALUE IS 0.08320 ON 15101507: AT ( 442023.45, 3761048.68, 203.71, 203.71, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
\*\*\* 03/08/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

ALL HIGH 1ST HIGH VALUE IS 0.04894 ON 12120224: AT ( 442023.45, 3761048.68, 203.71, 203.71, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* Construction  
\*\*\* 03/08/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:14:46

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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----- Summary of Total Messages -----

A Total of                0 Fatal Error Message(s)  
A Total of                2 Warning Message(s)  
A Total of                1279 Informational Message(s)  
  
A Total of                43848 Hours Were Processed  
  
A Total of                917 Calm Hours Identified  
  
A Total of                362 Missing Hours Identified ( 0.83 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
          \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186    2202        MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
          0.50  
ME W187    2202        MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.8.3

\*\* Lakes Environmental Software Inc.

\*\* Date: 3/9/2021

\*\* File: C:\Lakes\AERMOD View\SOL\_operations\_rev2\SOL\_operations\_rev2.ADI

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\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Lakes\AERMOD View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc

MODELOPT DFAULT CONC

AVERTIME 1 24 PERIOD

URBANOPT 2035210 San\_Bernardino\_County

POLLUTID PM\_10

RUNORNOT RUN

ERRORFIL SOL\_operations\_rev2.err

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000334

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439897.910, 3762688.093, 217.36, 3.66, 5.58

\*\* 439897.649, 3762632.423, 216.86, 3.66, 5.58

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\*\* 439900.113, 3762370.124, 213.55, 3.66, 5.58  
 \*\* 439898.053, 3762075.508, 210.11, 3.66, 5.58  
 \*\* 439895.792, 3761276.665, 202.47, 3.66, 5.58  
 \*\* 439895.843, 3760467.600, 193.65, 3.66, 5.58

\*\* -----

LOCATION	VOLUME				
L0040784	VOLUME	439897.882	3762682.093	217.46	
L0040785	VOLUME	439897.826	3762670.093	217.29	
L0040786	VOLUME	439897.770	3762658.093	217.15	
L0040787	VOLUME	439897.713	3762646.093	217.01	
L0040788	VOLUME	439897.657	3762634.093	216.85	
L0040789	VOLUME	439897.746	3762622.094	216.69	
L0040790	VOLUME	439897.859	3762610.094	216.53	
L0040791	VOLUME	439897.972	3762598.095	216.38	
L0040792	VOLUME	439898.084	3762586.095	216.23	
L0040793	VOLUME	439898.197	3762574.096	216.09	
L0040794	VOLUME	439898.310	3762562.096	215.96	
L0040795	VOLUME	439898.423	3762550.097	215.83	
L0040796	VOLUME	439898.535	3762538.097	215.68	
L0040797	VOLUME	439898.648	3762526.098	215.54	
L0040798	VOLUME	439898.761	3762514.098	215.40	
L0040799	VOLUME	439898.873	3762502.099	215.28	
L0040800	VOLUME	439898.986	3762490.100	215.15	
L0040801	VOLUME	439899.099	3762478.100	215.02	
L0040802	VOLUME	439899.212	3762466.101	214.89	
L0040803	VOLUME	439899.324	3762454.101	214.75	
L0040804	VOLUME	439899.437	3762442.102	214.59	
L0040805	VOLUME	439899.550	3762430.102	214.43	
L0040806	VOLUME	439899.663	3762418.103	214.28	
L0040807	VOLUME	439899.775	3762406.103	214.12	
L0040808	VOLUME	439899.888	3762394.104	213.97	
L0040809	VOLUME	439900.001	3762382.104	213.81	
L0040810	VOLUME	439900.113	3762370.105	213.66	
L0040811	VOLUME	439900.029	3762358.105	213.50	
L0040812	VOLUME	439899.945	3762346.105	213.33	
L0040813	VOLUME	439899.861	3762334.106	213.16	
L0040814	VOLUME	439899.778	3762322.106	212.98	
L0040815	VOLUME	439899.694	3762310.106	212.80	
L0040816	VOLUME	439899.610	3762298.107	212.61	
L0040817	VOLUME	439899.526	3762286.107	212.40	
L0040818	VOLUME	439899.442	3762274.107	212.20	
L0040819	VOLUME	439899.358	3762262.107	212.00	
L0040820	VOLUME	439899.274	3762250.108	211.81	
L0040821	VOLUME	439899.190	3762238.108	211.62	
L0040822	VOLUME	439899.106	3762226.108	211.45	
L0040823	VOLUME	439899.022	3762214.109	211.29	
L0040824	VOLUME	439898.938	3762202.109	211.14	
L0040825	VOLUME	439898.854	3762190.109	211.00	
L0040826	VOLUME	439898.771	3762178.110	210.87	

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LOCATION L0040827	VOLUME	439898.687	3762166.110	210.76
LOCATION L0040828	VOLUME	439898.603	3762154.110	210.65
LOCATION L0040829	VOLUME	439898.519	3762142.110	210.56
LOCATION L0040830	VOLUME	439898.435	3762130.111	210.48
LOCATION L0040831	VOLUME	439898.351	3762118.111	210.40
LOCATION L0040832	VOLUME	439898.267	3762106.111	210.32
LOCATION L0040833	VOLUME	439898.183	3762094.112	210.23
LOCATION L0040834	VOLUME	439898.099	3762082.112	210.14
LOCATION L0040835	VOLUME	439898.038	3762070.112	210.04
LOCATION L0040836	VOLUME	439898.004	3762058.112	209.95
LOCATION L0040837	VOLUME	439897.970	3762046.112	209.86
LOCATION L0040838	VOLUME	439897.936	3762034.112	209.77
LOCATION L0040839	VOLUME	439897.902	3762022.112	209.68
LOCATION L0040840	VOLUME	439897.868	3762010.112	209.59
LOCATION L0040841	VOLUME	439897.834	3761998.112	209.50
LOCATION L0040842	VOLUME	439897.800	3761986.112	209.40
LOCATION L0040843	VOLUME	439897.766	3761974.112	209.30
LOCATION L0040844	VOLUME	439897.732	3761962.113	209.19
LOCATION L0040845	VOLUME	439897.698	3761950.113	209.08
LOCATION L0040846	VOLUME	439897.664	3761938.113	208.97
LOCATION L0040847	VOLUME	439897.630	3761926.113	208.87
LOCATION L0040848	VOLUME	439897.596	3761914.113	208.76
LOCATION L0040849	VOLUME	439897.562	3761902.113	208.66
LOCATION L0040850	VOLUME	439897.528	3761890.113	208.55
LOCATION L0040851	VOLUME	439897.494	3761878.113	208.45
LOCATION L0040852	VOLUME	439897.460	3761866.113	208.35
LOCATION L0040853	VOLUME	439897.426	3761854.113	208.25
LOCATION L0040854	VOLUME	439897.392	3761842.113	208.15
LOCATION L0040855	VOLUME	439897.358	3761830.113	208.04
LOCATION L0040856	VOLUME	439897.324	3761818.113	207.94
LOCATION L0040857	VOLUME	439897.291	3761806.113	207.83
LOCATION L0040858	VOLUME	439897.257	3761794.113	207.72
LOCATION L0040859	VOLUME	439897.223	3761782.113	207.62
LOCATION L0040860	VOLUME	439897.189	3761770.113	207.51
LOCATION L0040861	VOLUME	439897.155	3761758.113	207.40
LOCATION L0040862	VOLUME	439897.121	3761746.113	207.29
LOCATION L0040863	VOLUME	439897.087	3761734.113	207.19
LOCATION L0040864	VOLUME	439897.053	3761722.113	207.08
LOCATION L0040865	VOLUME	439897.019	3761710.114	206.99
LOCATION L0040866	VOLUME	439896.985	3761698.114	206.89
LOCATION L0040867	VOLUME	439896.951	3761686.114	206.79
LOCATION L0040868	VOLUME	439896.917	3761674.114	206.69
LOCATION L0040869	VOLUME	439896.883	3761662.114	206.58
LOCATION L0040870	VOLUME	439896.849	3761650.114	206.47
LOCATION L0040871	VOLUME	439896.815	3761638.114	206.38
LOCATION L0040872	VOLUME	439896.781	3761626.114	206.28
LOCATION L0040873	VOLUME	439896.747	3761614.114	206.19
LOCATION L0040874	VOLUME	439896.713	3761602.114	206.10

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LOCATION L0040875	VOLUME	439896.679	3761590.114	206.00
LOCATION L0040876	VOLUME	439896.645	3761578.114	205.88
LOCATION L0040877	VOLUME	439896.611	3761566.114	205.76
LOCATION L0040878	VOLUME	439896.577	3761554.114	205.62
LOCATION L0040879	VOLUME	439896.543	3761542.114	205.48
LOCATION L0040880	VOLUME	439896.509	3761530.114	205.34
LOCATION L0040881	VOLUME	439896.475	3761518.114	205.20
LOCATION L0040882	VOLUME	439896.441	3761506.114	205.06
LOCATION L0040883	VOLUME	439896.407	3761494.114	204.92
LOCATION L0040884	VOLUME	439896.373	3761482.114	204.78
LOCATION L0040885	VOLUME	439896.339	3761470.114	204.64
LOCATION L0040886	VOLUME	439896.305	3761458.115	204.50
LOCATION L0040887	VOLUME	439896.272	3761446.115	204.36
LOCATION L0040888	VOLUME	439896.238	3761434.115	204.23
LOCATION L0040889	VOLUME	439896.204	3761422.115	204.08
LOCATION L0040890	VOLUME	439896.170	3761410.115	203.94
LOCATION L0040891	VOLUME	439896.136	3761398.115	203.79
LOCATION L0040892	VOLUME	439896.102	3761386.115	203.64
LOCATION L0040893	VOLUME	439896.068	3761374.115	203.48
LOCATION L0040894	VOLUME	439896.034	3761362.115	203.34
LOCATION L0040895	VOLUME	439896.000	3761350.115	203.19
LOCATION L0040896	VOLUME	439895.966	3761338.115	203.06
LOCATION L0040897	VOLUME	439895.932	3761326.115	202.93
LOCATION L0040898	VOLUME	439895.898	3761314.115	202.81
LOCATION L0040899	VOLUME	439895.864	3761302.115	202.68
LOCATION L0040900	VOLUME	439895.830	3761290.115	202.55
LOCATION L0040901	VOLUME	439895.796	3761278.115	202.42
LOCATION L0040902	VOLUME	439895.793	3761266.115	202.29
LOCATION L0040903	VOLUME	439895.793	3761254.115	202.16
LOCATION L0040904	VOLUME	439895.794	3761242.115	202.08
LOCATION L0040905	VOLUME	439895.795	3761230.115	202.00
LOCATION L0040906	VOLUME	439895.796	3761218.115	201.91
LOCATION L0040907	VOLUME	439895.796	3761206.115	201.81
LOCATION L0040908	VOLUME	439895.797	3761194.115	201.71
LOCATION L0040909	VOLUME	439895.798	3761182.115	201.59
LOCATION L0040910	VOLUME	439895.799	3761170.115	201.47
LOCATION L0040911	VOLUME	439895.799	3761158.115	201.36
LOCATION L0040912	VOLUME	439895.800	3761146.115	201.23
LOCATION L0040913	VOLUME	439895.801	3761134.115	201.10
LOCATION L0040914	VOLUME	439895.802	3761122.115	200.98
LOCATION L0040915	VOLUME	439895.802	3761110.115	200.86
LOCATION L0040916	VOLUME	439895.803	3761098.115	200.74
LOCATION L0040917	VOLUME	439895.804	3761086.115	200.62
LOCATION L0040918	VOLUME	439895.805	3761074.115	200.49
LOCATION L0040919	VOLUME	439895.805	3761062.115	200.37
LOCATION L0040920	VOLUME	439895.806	3761050.115	200.23
LOCATION L0040921	VOLUME	439895.807	3761038.115	200.09
LOCATION L0040922	VOLUME	439895.808	3761026.115	199.94



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LOCATION L0040923	VOLUME	439895.808	3761014.115	199.79
LOCATION L0040924	VOLUME	439895.809	3761002.115	199.63
LOCATION L0040925	VOLUME	439895.810	3760990.115	199.48
LOCATION L0040926	VOLUME	439895.811	3760978.115	199.32
LOCATION L0040927	VOLUME	439895.811	3760966.115	199.16
LOCATION L0040928	VOLUME	439895.812	3760954.115	199.01
LOCATION L0040929	VOLUME	439895.813	3760942.115	198.86
LOCATION L0040930	VOLUME	439895.814	3760930.115	198.71
LOCATION L0040931	VOLUME	439895.814	3760918.115	198.56
LOCATION L0040932	VOLUME	439895.815	3760906.115	198.41
LOCATION L0040933	VOLUME	439895.816	3760894.115	198.25
LOCATION L0040934	VOLUME	439895.817	3760882.115	198.09
LOCATION L0040935	VOLUME	439895.817	3760870.115	197.94
LOCATION L0040936	VOLUME	439895.818	3760858.115	197.78
LOCATION L0040937	VOLUME	439895.819	3760846.115	197.61
LOCATION L0040938	VOLUME	439895.820	3760834.115	197.43
LOCATION L0040939	VOLUME	439895.820	3760822.115	197.26
LOCATION L0040940	VOLUME	439895.821	3760810.115	197.10
LOCATION L0040941	VOLUME	439895.822	3760798.115	196.95
LOCATION L0040942	VOLUME	439895.823	3760786.115	196.80
LOCATION L0040943	VOLUME	439895.823	3760774.115	196.66
LOCATION L0040944	VOLUME	439895.824	3760762.115	196.52
LOCATION L0040945	VOLUME	439895.825	3760750.115	196.38
LOCATION L0040946	VOLUME	439895.826	3760738.115	196.24
LOCATION L0040947	VOLUME	439895.826	3760726.115	196.11
LOCATION L0040948	VOLUME	439895.827	3760714.115	195.98
LOCATION L0040949	VOLUME	439895.828	3760702.115	195.85
LOCATION L0040950	VOLUME	439895.829	3760690.115	195.74
LOCATION L0040951	VOLUME	439895.829	3760678.115	195.63
LOCATION L0040952	VOLUME	439895.830	3760666.115	195.52
LOCATION L0040953	VOLUME	439895.831	3760654.115	195.42
LOCATION L0040954	VOLUME	439895.832	3760642.115	195.31
LOCATION L0040955	VOLUME	439895.832	3760630.115	195.21
LOCATION L0040956	VOLUME	439895.833	3760618.115	195.11
LOCATION L0040957	VOLUME	439895.834	3760606.115	195.01
LOCATION L0040958	VOLUME	439895.835	3760594.115	194.90
LOCATION L0040959	VOLUME	439895.835	3760582.115	194.79
LOCATION L0040960	VOLUME	439895.836	3760570.115	194.68
LOCATION L0040961	VOLUME	439895.837	3760558.115	194.57
LOCATION L0040962	VOLUME	439895.838	3760546.115	194.46
LOCATION L0040963	VOLUME	439895.838	3760534.115	194.34
LOCATION L0040964	VOLUME	439895.839	3760522.115	194.22
LOCATION L0040965	VOLUME	439895.840	3760510.115	194.10
LOCATION L0040966	VOLUME	439895.841	3760498.115	193.99
LOCATION L0040967	VOLUME	439895.841	3760486.115	193.88
LOCATION L0040968	VOLUME	439895.842	3760474.115	193.77

\*\* End of LINE VOLUME Source ID = SLINE2

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Euclid Ave - Merrill Ave to SR-71

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000016

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 7

\*\* 439895.965, 3760471.472, 193.72, 3.66, 5.58

\*\* 439894.002, 3760323.327, 192.76, 3.66, 5.58

\*\* 439894.252, 3759955.407, 190.38, 3.66, 5.58

\*\* 439889.660, 3759518.181, 186.91, 3.66, 5.58

\*\* 439888.673, 3759221.010, 184.82, 3.66, 5.58

\*\* 439889.264, 3759072.819, 183.50, 3.66, 5.58

\*\* 439887.586, 3758873.931, 182.11, 3.66, 5.58

\*\*

LOCATION	VOLUME				
L0040969	VOLUME	439895.885	3760465.473	193.68	
L0040970	VOLUME	439895.726	3760453.474	193.57	
L0040971	VOLUME	439895.568	3760441.475	193.47	
L0040972	VOLUME	439895.409	3760429.476	193.38	
L0040973	VOLUME	439895.250	3760417.477	193.29	
L0040974	VOLUME	439895.091	3760405.478	193.23	
L0040975	VOLUME	439894.932	3760393.479	193.17	
L0040976	VOLUME	439894.773	3760381.480	193.10	
L0040977	VOLUME	439894.614	3760369.481	193.03	
L0040978	VOLUME	439894.455	3760357.482	192.96	
L0040979	VOLUME	439894.296	3760345.483	192.88	
L0040980	VOLUME	439894.137	3760333.484	192.80	
L0040981	VOLUME	439894.003	3760321.485	192.70	
L0040982	VOLUME	439894.012	3760309.485	192.60	
L0040983	VOLUME	439894.020	3760297.485	192.49	
L0040984	VOLUME	439894.028	3760285.485	192.39	
L0040985	VOLUME	439894.036	3760273.485	192.28	
L0040986	VOLUME	439894.044	3760261.485	192.17	
L0040987	VOLUME	439894.052	3760249.485	192.07	
L0040988	VOLUME	439894.061	3760237.485	191.96	
L0040989	VOLUME	439894.069	3760225.485	191.85	
L0040990	VOLUME	439894.077	3760213.485	191.74	
L0040991	VOLUME	439894.085	3760201.485	191.64	
L0040992	VOLUME	439894.093	3760189.485	191.54	
L0040993	VOLUME	439894.101	3760177.485	191.44	
L0040994	VOLUME	439894.110	3760165.485	191.37	
L0040995	VOLUME	439894.118	3760153.485	191.30	
L0040996	VOLUME	439894.126	3760141.485	191.24	
L0040997	VOLUME	439894.134	3760129.485	191.18	
L0040998	VOLUME	439894.142	3760117.485	191.12	

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LOCATION L0040999	VOLUME	439894.150	3760105.485	191.08
LOCATION L0041000	VOLUME	439894.159	3760093.485	191.03
LOCATION L0041001	VOLUME	439894.167	3760081.485	190.98
LOCATION L0041002	VOLUME	439894.175	3760069.485	190.93
LOCATION L0041003	VOLUME	439894.183	3760057.485	190.88
LOCATION L0041004	VOLUME	439894.191	3760045.485	190.83
LOCATION L0041005	VOLUME	439894.199	3760033.485	190.78
LOCATION L0041006	VOLUME	439894.208	3760021.485	190.72
LOCATION L0041007	VOLUME	439894.216	3760009.485	190.66
LOCATION L0041008	VOLUME	439894.224	3759997.485	190.60
LOCATION L0041009	VOLUME	439894.232	3759985.485	190.53
LOCATION L0041010	VOLUME	439894.240	3759973.485	190.47
LOCATION L0041011	VOLUME	439894.248	3759961.485	190.41
LOCATION L0041012	VOLUME	439894.190	3759949.486	190.34
LOCATION L0041013	VOLUME	439894.064	3759937.486	190.27
LOCATION L0041014	VOLUME	439893.938	3759925.487	190.21
LOCATION L0041015	VOLUME	439893.812	3759913.488	190.14
LOCATION L0041016	VOLUME	439893.686	3759901.488	190.08
LOCATION L0041017	VOLUME	439893.560	3759889.489	190.01
LOCATION L0041018	VOLUME	439893.434	3759877.490	189.93
LOCATION L0041019	VOLUME	439893.308	3759865.490	189.84
LOCATION L0041020	VOLUME	439893.182	3759853.491	189.74
LOCATION L0041021	VOLUME	439893.056	3759841.492	189.64
LOCATION L0041022	VOLUME	439892.930	3759829.492	189.54
LOCATION L0041023	VOLUME	439892.804	3759817.493	189.44
LOCATION L0041024	VOLUME	439892.678	3759805.494	189.33
LOCATION L0041025	VOLUME	439892.552	3759793.494	189.23
LOCATION L0041026	VOLUME	439892.426	3759781.495	189.13
LOCATION L0041027	VOLUME	439892.300	3759769.496	189.02
LOCATION L0041028	VOLUME	439892.174	3759757.496	188.91
LOCATION L0041029	VOLUME	439892.048	3759745.497	188.80
LOCATION L0041030	VOLUME	439891.922	3759733.498	188.69
LOCATION L0041031	VOLUME	439891.795	3759721.498	188.57
LOCATION L0041032	VOLUME	439891.669	3759709.499	188.46
LOCATION L0041033	VOLUME	439891.543	3759697.500	188.36
LOCATION L0041034	VOLUME	439891.417	3759685.500	188.26
LOCATION L0041035	VOLUME	439891.291	3759673.501	188.16
LOCATION L0041036	VOLUME	439891.165	3759661.502	188.07
LOCATION L0041037	VOLUME	439891.039	3759649.502	187.97
LOCATION L0041038	VOLUME	439890.913	3759637.503	187.86
LOCATION L0041039	VOLUME	439890.787	3759625.504	187.75
LOCATION L0041040	VOLUME	439890.661	3759613.504	187.64
LOCATION L0041041	VOLUME	439890.535	3759601.505	187.54
LOCATION L0041042	VOLUME	439890.409	3759589.505	187.44
LOCATION L0041043	VOLUME	439890.283	3759577.506	187.35
LOCATION L0041044	VOLUME	439890.157	3759565.507	187.25
LOCATION L0041045	VOLUME	439890.031	3759553.507	187.15
LOCATION L0041046	VOLUME	439889.905	3759541.508	187.05

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LOCATION L0041047	VOLUME	439889.779	3759529.509	186.95
LOCATION L0041048	VOLUME	439889.658	3759517.509	186.86
LOCATION L0041049	VOLUME	439889.618	3759505.510	186.78
LOCATION L0041050	VOLUME	439889.578	3759493.510	186.70
LOCATION L0041051	VOLUME	439889.538	3759481.510	186.63
LOCATION L0041052	VOLUME	439889.498	3759469.510	186.55
LOCATION L0041053	VOLUME	439889.458	3759457.510	186.48
LOCATION L0041054	VOLUME	439889.418	3759445.510	186.41
LOCATION L0041055	VOLUME	439889.379	3759433.510	186.34
LOCATION L0041056	VOLUME	439889.339	3759421.510	186.26
LOCATION L0041057	VOLUME	439889.299	3759409.510	186.18
LOCATION L0041058	VOLUME	439889.259	3759397.510	186.09
LOCATION L0041059	VOLUME	439889.219	3759385.510	186.00
LOCATION L0041060	VOLUME	439889.179	3759373.510	185.92
LOCATION L0041061	VOLUME	439889.139	3759361.510	185.85
LOCATION L0041062	VOLUME	439889.099	3759349.510	185.79
LOCATION L0041063	VOLUME	439889.060	3759337.510	185.72
LOCATION L0041064	VOLUME	439889.020	3759325.510	185.66
LOCATION L0041065	VOLUME	439888.980	3759313.511	185.59
LOCATION L0041066	VOLUME	439888.940	3759301.511	185.52
LOCATION L0041067	VOLUME	439888.900	3759289.511	185.44
LOCATION L0041068	VOLUME	439888.860	3759277.511	185.35
LOCATION L0041069	VOLUME	439888.820	3759265.511	185.25
LOCATION L0041070	VOLUME	439888.781	3759253.511	185.14
LOCATION L0041071	VOLUME	439888.741	3759241.511	185.02
LOCATION L0041072	VOLUME	439888.701	3759229.511	184.91
LOCATION L0041073	VOLUME	439888.687	3759217.511	184.79
LOCATION L0041074	VOLUME	439888.734	3759205.511	184.67
LOCATION L0041075	VOLUME	439888.782	3759193.511	184.56
LOCATION L0041076	VOLUME	439888.830	3759181.511	184.44
LOCATION L0041077	VOLUME	439888.878	3759169.511	184.33
LOCATION L0041078	VOLUME	439888.926	3759157.512	184.22
LOCATION L0041079	VOLUME	439888.974	3759145.512	184.11
LOCATION L0041080	VOLUME	439889.022	3759133.512	184.00
LOCATION L0041081	VOLUME	439889.070	3759121.512	183.89
LOCATION L0041082	VOLUME	439889.118	3759109.512	183.80
LOCATION L0041083	VOLUME	439889.166	3759097.512	183.70
LOCATION L0041084	VOLUME	439889.214	3759085.512	183.63
LOCATION L0041085	VOLUME	439889.262	3759073.512	183.55
LOCATION L0041086	VOLUME	439889.169	3759061.513	183.48
LOCATION L0041087	VOLUME	439889.068	3759049.513	183.42
LOCATION L0041088	VOLUME	439888.966	3759037.514	183.36
LOCATION L0041089	VOLUME	439888.865	3759025.514	183.31
LOCATION L0041090	VOLUME	439888.764	3759013.514	183.25
LOCATION L0041091	VOLUME	439888.663	3759001.515	183.19
LOCATION L0041092	VOLUME	439888.561	3758989.515	183.11
LOCATION L0041093	VOLUME	439888.460	3758977.516	183.03
LOCATION L0041094	VOLUME	439888.359	3758965.516	182.95

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LOCATION L0041095	VOLUME	439888.258	3758953.517	182.87
LOCATION L0041096	VOLUME	439888.156	3758941.517	182.78
LOCATION L0041097	VOLUME	439888.055	3758929.517	182.67
LOCATION L0041098	VOLUME	439887.954	3758917.518	182.56
LOCATION L0041099	VOLUME	439887.853	3758905.518	182.44
LOCATION L0041100	VOLUME	439887.751	3758893.519	182.30
LOCATION L0041101	VOLUME	439887.650	3758881.519	182.17

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Merrill Ave - Euclid Ave to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000012

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439898.378, 3760465.490, 193.62, 3.66, 2.33

\*\* 439941.655, 3760464.977, 193.56, 3.66, 2.33

\*\* 440094.749, 3760465.148, 193.70, 3.66, 2.33

\*\* 440334.726, 3760466.319, 194.72, 3.66, 2.33

\*\* 440497.808, 3760467.090, 195.14, 3.66, 2.33

\*\* 440776.167, 3760467.090, 196.68, 3.66, 2.33

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LOCATION L0041102	VOLUME	439900.877	3760465.460	193.70
LOCATION L0041103	VOLUME	439905.877	3760465.401	193.70
LOCATION L0041104	VOLUME	439910.877	3760465.342	193.70
LOCATION L0041105	VOLUME	439915.876	3760465.283	193.71
LOCATION L0041106	VOLUME	439920.876	3760465.223	193.71
LOCATION L0041107	VOLUME	439925.876	3760465.164	193.70
LOCATION L0041108	VOLUME	439930.875	3760465.105	193.68
LOCATION L0041109	VOLUME	439935.875	3760465.045	193.65
LOCATION L0041110	VOLUME	439940.875	3760464.986	193.63
LOCATION L0041111	VOLUME	439945.875	3760464.982	193.61
LOCATION L0041112	VOLUME	439950.875	3760464.987	193.59
LOCATION L0041113	VOLUME	439955.875	3760464.993	193.58
LOCATION L0041114	VOLUME	439960.875	3760464.998	193.58
LOCATION L0041115	VOLUME	439965.875	3760465.004	193.57
LOCATION L0041116	VOLUME	439970.875	3760465.010	193.56
LOCATION L0041117	VOLUME	439975.875	3760465.015	193.56
LOCATION L0041118	VOLUME	439980.875	3760465.021	193.56
LOCATION L0041119	VOLUME	439985.875	3760465.026	193.57
LOCATION L0041120	VOLUME	439990.875	3760465.032	193.57
LOCATION L0041121	VOLUME	439995.875	3760465.037	193.57
LOCATION L0041122	VOLUME	440000.875	3760465.043	193.58
LOCATION L0041123	VOLUME	440005.875	3760465.049	193.58

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LOCATION L0041124	VOLUME	440010.875	3760465.054	193.58
LOCATION L0041125	VOLUME	440015.875	3760465.060	193.58
LOCATION L0041126	VOLUME	440020.875	3760465.065	193.58
LOCATION L0041127	VOLUME	440025.874	3760465.071	193.59
LOCATION L0041128	VOLUME	440030.874	3760465.077	193.59
LOCATION L0041129	VOLUME	440035.874	3760465.082	193.59
LOCATION L0041130	VOLUME	440040.874	3760465.088	193.60
LOCATION L0041131	VOLUME	440045.874	3760465.093	193.60
LOCATION L0041132	VOLUME	440050.874	3760465.099	193.60
LOCATION L0041133	VOLUME	440055.874	3760465.105	193.61
LOCATION L0041134	VOLUME	440060.874	3760465.110	193.62
LOCATION L0041135	VOLUME	440065.874	3760465.116	193.63
LOCATION L0041136	VOLUME	440070.874	3760465.121	193.64
LOCATION L0041137	VOLUME	440075.874	3760465.127	193.65
LOCATION L0041138	VOLUME	440080.874	3760465.132	193.65
LOCATION L0041139	VOLUME	440085.874	3760465.138	193.66
LOCATION L0041140	VOLUME	440090.874	3760465.144	193.66
LOCATION L0041141	VOLUME	440095.874	3760465.153	193.66
LOCATION L0041142	VOLUME	440100.874	3760465.178	193.67
LOCATION L0041143	VOLUME	440105.874	3760465.202	193.68
LOCATION L0041144	VOLUME	440110.874	3760465.227	193.69
LOCATION L0041145	VOLUME	440115.874	3760465.251	193.70
LOCATION L0041146	VOLUME	440120.874	3760465.275	193.72
LOCATION L0041147	VOLUME	440125.874	3760465.300	193.73
LOCATION L0041148	VOLUME	440130.874	3760465.324	193.75
LOCATION L0041149	VOLUME	440135.874	3760465.349	193.78
LOCATION L0041150	VOLUME	440140.874	3760465.373	193.80
LOCATION L0041151	VOLUME	440145.874	3760465.397	193.83
LOCATION L0041152	VOLUME	440150.874	3760465.422	193.86
LOCATION L0041153	VOLUME	440155.874	3760465.446	193.88
LOCATION L0041154	VOLUME	440160.874	3760465.471	193.91
LOCATION L0041155	VOLUME	440165.874	3760465.495	193.94
LOCATION L0041156	VOLUME	440170.874	3760465.520	193.97
LOCATION L0041157	VOLUME	440175.873	3760465.544	194.00
LOCATION L0041158	VOLUME	440180.873	3760465.568	194.02
LOCATION L0041159	VOLUME	440185.873	3760465.593	194.05
LOCATION L0041160	VOLUME	440190.873	3760465.617	194.07
LOCATION L0041161	VOLUME	440195.873	3760465.642	194.10
LOCATION L0041162	VOLUME	440200.873	3760465.666	194.12
LOCATION L0041163	VOLUME	440205.873	3760465.690	194.14
LOCATION L0041164	VOLUME	440210.873	3760465.715	194.16
LOCATION L0041165	VOLUME	440215.873	3760465.739	194.18
LOCATION L0041166	VOLUME	440220.873	3760465.764	194.19
LOCATION L0041167	VOLUME	440225.873	3760465.788	194.21
LOCATION L0041168	VOLUME	440230.873	3760465.812	194.22
LOCATION L0041169	VOLUME	440235.873	3760465.837	194.26
LOCATION L0041170	VOLUME	440240.873	3760465.861	194.30
LOCATION L0041171	VOLUME	440245.873	3760465.886	194.33

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LOCATION L0041172	VOLUME	440250.873	3760465.910	194.37
LOCATION L0041173	VOLUME	440255.873	3760465.934	194.41
LOCATION L0041174	VOLUME	440260.872	3760465.959	194.44
LOCATION L0041175	VOLUME	440265.872	3760465.983	194.47
LOCATION L0041176	VOLUME	440270.872	3760466.008	194.50
LOCATION L0041177	VOLUME	440275.872	3760466.032	194.53
LOCATION L0041178	VOLUME	440280.872	3760466.056	194.56
LOCATION L0041179	VOLUME	440285.872	3760466.081	194.57
LOCATION L0041180	VOLUME	440290.872	3760466.105	194.59
LOCATION L0041181	VOLUME	440295.872	3760466.130	194.60
LOCATION L0041182	VOLUME	440300.872	3760466.154	194.62
LOCATION L0041183	VOLUME	440305.872	3760466.178	194.63
LOCATION L0041184	VOLUME	440310.872	3760466.203	194.65
LOCATION L0041185	VOLUME	440315.872	3760466.227	194.67
LOCATION L0041186	VOLUME	440320.872	3760466.252	194.69
LOCATION L0041187	VOLUME	440325.872	3760466.276	194.71
LOCATION L0041188	VOLUME	440330.872	3760466.300	194.73
LOCATION L0041189	VOLUME	440335.872	3760466.325	194.76
LOCATION L0041190	VOLUME	440340.872	3760466.348	194.78
LOCATION L0041191	VOLUME	440345.871	3760466.372	194.80
LOCATION L0041192	VOLUME	440350.871	3760466.396	194.82
LOCATION L0041193	VOLUME	440355.871	3760466.419	194.84
LOCATION L0041194	VOLUME	440360.871	3760466.443	194.88
LOCATION L0041195	VOLUME	440365.871	3760466.466	194.94
LOCATION L0041196	VOLUME	440370.871	3760466.490	195.00
LOCATION L0041197	VOLUME	440375.871	3760466.514	195.07
LOCATION L0041198	VOLUME	440380.871	3760466.537	195.13
LOCATION L0041199	VOLUME	440385.871	3760466.561	195.19
LOCATION L0041200	VOLUME	440390.871	3760466.585	195.21
LOCATION L0041201	VOLUME	440395.871	3760466.608	195.23
LOCATION L0041202	VOLUME	440400.871	3760466.632	195.25
LOCATION L0041203	VOLUME	440405.871	3760466.656	195.27
LOCATION L0041204	VOLUME	440410.871	3760466.679	195.29
LOCATION L0041205	VOLUME	440415.871	3760466.703	195.24
LOCATION L0041206	VOLUME	440420.871	3760466.726	195.20
LOCATION L0041207	VOLUME	440425.871	3760466.750	195.15
LOCATION L0041208	VOLUME	440430.871	3760466.774	195.11
LOCATION L0041209	VOLUME	440435.870	3760466.797	195.06
LOCATION L0041210	VOLUME	440440.870	3760466.821	195.07
LOCATION L0041211	VOLUME	440445.870	3760466.845	195.08
LOCATION L0041212	VOLUME	440450.870	3760466.868	195.09
LOCATION L0041213	VOLUME	440455.870	3760466.892	195.11
LOCATION L0041214	VOLUME	440460.870	3760466.916	195.12
LOCATION L0041215	VOLUME	440465.870	3760466.939	195.13
LOCATION L0041216	VOLUME	440470.870	3760466.963	195.14
LOCATION L0041217	VOLUME	440475.870	3760466.987	195.15
LOCATION L0041218	VOLUME	440480.870	3760467.010	195.16
LOCATION L0041219	VOLUME	440485.870	3760467.034	195.17

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LOCATION L0041220	VOLUME	440490.870	3760467.057	195.18
LOCATION L0041221	VOLUME	440495.870	3760467.081	195.20
LOCATION L0041222	VOLUME	440500.870	3760467.090	195.21
LOCATION L0041223	VOLUME	440505.870	3760467.090	195.22
LOCATION L0041224	VOLUME	440510.870	3760467.090	195.23
LOCATION L0041225	VOLUME	440515.870	3760467.090	195.25
LOCATION L0041226	VOLUME	440520.870	3760467.090	195.26
LOCATION L0041227	VOLUME	440525.870	3760467.090	195.28
LOCATION L0041228	VOLUME	440530.870	3760467.090	195.29
LOCATION L0041229	VOLUME	440535.870	3760467.090	195.31
LOCATION L0041230	VOLUME	440540.870	3760467.090	195.32
LOCATION L0041231	VOLUME	440545.870	3760467.090	195.34
LOCATION L0041232	VOLUME	440550.870	3760467.090	195.35
LOCATION L0041233	VOLUME	440555.870	3760467.090	195.37
LOCATION L0041234	VOLUME	440560.870	3760467.090	195.38
LOCATION L0041235	VOLUME	440565.870	3760467.090	195.40
LOCATION L0041236	VOLUME	440570.870	3760467.090	195.42
LOCATION L0041237	VOLUME	440575.870	3760467.090	195.43
LOCATION L0041238	VOLUME	440580.870	3760467.090	195.45
LOCATION L0041239	VOLUME	440585.870	3760467.090	195.47
LOCATION L0041240	VOLUME	440590.870	3760467.090	195.49
LOCATION L0041241	VOLUME	440595.870	3760467.090	195.51
LOCATION L0041242	VOLUME	440600.870	3760467.090	195.52
LOCATION L0041243	VOLUME	440605.870	3760467.090	195.54
LOCATION L0041244	VOLUME	440610.870	3760467.090	195.55
LOCATION L0041245	VOLUME	440615.870	3760467.090	195.57
LOCATION L0041246	VOLUME	440620.870	3760467.090	195.58
LOCATION L0041247	VOLUME	440625.870	3760467.090	195.60
LOCATION L0041248	VOLUME	440630.870	3760467.090	195.61
LOCATION L0041249	VOLUME	440635.870	3760467.090	195.63
LOCATION L0041250	VOLUME	440640.870	3760467.090	195.64
LOCATION L0041251	VOLUME	440645.870	3760467.090	195.66
LOCATION L0041252	VOLUME	440650.870	3760467.090	195.68
LOCATION L0041253	VOLUME	440655.870	3760467.090	195.70
LOCATION L0041254	VOLUME	440660.870	3760467.090	195.72
LOCATION L0041255	VOLUME	440665.870	3760467.090	195.73
LOCATION L0041256	VOLUME	440670.870	3760467.090	195.76
LOCATION L0041257	VOLUME	440675.870	3760467.090	195.78
LOCATION L0041258	VOLUME	440680.870	3760467.090	195.81
LOCATION L0041259	VOLUME	440685.870	3760467.090	195.83
LOCATION L0041260	VOLUME	440690.870	3760467.090	195.85
LOCATION L0041261	VOLUME	440695.870	3760467.090	195.88
LOCATION L0041262	VOLUME	440700.870	3760467.090	195.90
LOCATION L0041263	VOLUME	440705.870	3760467.090	195.93
LOCATION L0041264	VOLUME	440710.870	3760467.090	195.95
LOCATION L0041265	VOLUME	440715.870	3760467.090	195.98
LOCATION L0041266	VOLUME	440720.870	3760467.090	196.01
LOCATION L0041267	VOLUME	440725.870	3760467.090	196.05



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LOCATION L0041268	VOLUME	440730.870	3760467.090	196.09
LOCATION L0041269	VOLUME	440735.870	3760467.090	196.13
LOCATION L0041270	VOLUME	440740.870	3760467.090	196.17
LOCATION L0041271	VOLUME	440745.870	3760467.090	196.23
LOCATION L0041272	VOLUME	440750.870	3760467.090	196.31
LOCATION L0041273	VOLUME	440755.870	3760467.090	196.38
LOCATION L0041274	VOLUME	440760.870	3760467.090	196.46
LOCATION L0041275	VOLUME	440765.870	3760467.090	196.54
LOCATION L0041276	VOLUME	440770.870	3760467.090	196.61
LOCATION L0041277	VOLUME	440775.870	3760467.090	196.63

\*\* End of LINE VOLUME Source ID = SLINE4

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Merrill Ave - Archibald Ave to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000437

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 21

** 441994.232,	3760466.531,	199.91,	3.66,	2.33
** 442337.340,	3760467.379,	200.89,	3.66,	2.33
** 442503.283,	3760469.894,	201.12,	3.66,	2.33
** 442854.597,	3760466.401,	200.93,	3.66,	2.33
** 442983.505,	3760465.947,	201.47,	3.66,	2.33
** 443292.157,	3760466.401,	202.70,	3.66,	2.33
** 443593.547,	3760465.947,	203.28,	3.66,	2.33
** 443681.150,	3760465.947,	203.44,	3.66,	2.33
** 443881.774,	3760467.309,	204.27,	3.66,	2.33
** 443927.465,	3760467.312,	204.55,	3.66,	2.33
** 443985.566,	3760467.312,	204.15,	3.66,	2.33
** 444034.589,	3760457.326,	203.45,	3.66,	2.33
** 444086.336,	3760434.630,	203.02,	3.66,	2.33
** 444136.267,	3760419.197,	202.57,	3.66,	2.33
** 444194.822,	3760412.388,	202.15,	3.66,	2.33
** 444298.314,	3760411.481,	201.97,	3.66,	2.33
** 444469.587,	3760409.272,	201.83,	3.66,	2.33
** 444641.744,	3760409.901,	198.12,	3.66,	2.33
** 444846.603,	3760403.420,	201.24,	3.66,	2.33
** 445150.117,	3760398.202,	201.58,	3.66,	2.33
** 445194.282,	3760399.929,	201.44,	3.66,	2.33

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LOCATION L0041278	VOLUME	441996.732	3760466.537	199.87
LOCATION L0041279	VOLUME	442001.732	3760466.550	199.84
LOCATION L0041280	VOLUME	442006.732	3760466.562	199.92
LOCATION L0041281	VOLUME	442011.732	3760466.575	200.01

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LOCATION L0041282	VOLUME	442016.732	3760466.587	200.10
LOCATION L0041283	VOLUME	442021.732	3760466.599	200.19
LOCATION L0041284	VOLUME	442026.732	3760466.612	200.28
LOCATION L0041285	VOLUME	442031.732	3760466.624	200.30
LOCATION L0041286	VOLUME	442036.732	3760466.636	200.31
LOCATION L0041287	VOLUME	442041.732	3760466.649	200.32
LOCATION L0041288	VOLUME	442046.732	3760466.661	200.34
LOCATION L0041289	VOLUME	442051.732	3760466.673	200.35
LOCATION L0041290	VOLUME	442056.732	3760466.686	200.36
LOCATION L0041291	VOLUME	442061.732	3760466.698	200.36
LOCATION L0041292	VOLUME	442066.732	3760466.710	200.36
LOCATION L0041293	VOLUME	442071.732	3760466.723	200.36
LOCATION L0041294	VOLUME	442076.732	3760466.735	200.36
LOCATION L0041295	VOLUME	442081.732	3760466.747	200.36
LOCATION L0041296	VOLUME	442086.732	3760466.760	200.36
LOCATION L0041297	VOLUME	442091.732	3760466.772	200.36
LOCATION L0041298	VOLUME	442096.732	3760466.784	200.35
LOCATION L0041299	VOLUME	442101.732	3760466.797	200.35
LOCATION L0041300	VOLUME	442106.732	3760466.809	200.35
LOCATION L0041301	VOLUME	442111.732	3760466.822	200.34
LOCATION L0041302	VOLUME	442116.732	3760466.834	200.34
LOCATION L0041303	VOLUME	442121.732	3760466.846	200.34
LOCATION L0041304	VOLUME	442126.732	3760466.859	200.33
LOCATION L0041305	VOLUME	442131.732	3760466.871	200.33
LOCATION L0041306	VOLUME	442136.732	3760466.883	200.34
LOCATION L0041307	VOLUME	442141.732	3760466.896	200.34
LOCATION L0041308	VOLUME	442146.732	3760466.908	200.34
LOCATION L0041309	VOLUME	442151.732	3760466.920	200.35
LOCATION L0041310	VOLUME	442156.732	3760466.933	200.35
LOCATION L0041311	VOLUME	442161.732	3760466.945	200.36
LOCATION L0041312	VOLUME	442166.732	3760466.957	200.36
LOCATION L0041313	VOLUME	442171.732	3760466.970	200.37
LOCATION L0041314	VOLUME	442176.732	3760466.982	200.37
LOCATION L0041315	VOLUME	442181.732	3760466.994	200.38
LOCATION L0041316	VOLUME	442186.732	3760467.007	200.38
LOCATION L0041317	VOLUME	442191.732	3760467.019	200.38
LOCATION L0041318	VOLUME	442196.732	3760467.031	200.39
LOCATION L0041319	VOLUME	442201.732	3760467.044	200.39
LOCATION L0041320	VOLUME	442206.732	3760467.056	200.39
LOCATION L0041321	VOLUME	442211.732	3760467.069	200.40
LOCATION L0041322	VOLUME	442216.732	3760467.081	200.41
LOCATION L0041323	VOLUME	442221.732	3760467.093	200.42
LOCATION L0041324	VOLUME	442226.732	3760467.106	200.43
LOCATION L0041325	VOLUME	442231.732	3760467.118	200.44
LOCATION L0041326	VOLUME	442236.732	3760467.130	200.45
LOCATION L0041327	VOLUME	442241.732	3760467.143	200.47
LOCATION L0041328	VOLUME	442246.732	3760467.155	200.49
LOCATION L0041329	VOLUME	442251.731	3760467.167	200.51

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LOCATION L0041330	VOLUME	442256.731	3760467.180	200.53
LOCATION L0041331	VOLUME	442261.731	3760467.192	200.55
LOCATION L0041332	VOLUME	442266.731	3760467.204	200.57
LOCATION L0041333	VOLUME	442271.731	3760467.217	200.59
LOCATION L0041334	VOLUME	442276.731	3760467.229	200.61
LOCATION L0041335	VOLUME	442281.731	3760467.241	200.63
LOCATION L0041336	VOLUME	442286.731	3760467.254	200.65
LOCATION L0041337	VOLUME	442291.731	3760467.266	200.66
LOCATION L0041338	VOLUME	442296.731	3760467.278	200.68
LOCATION L0041339	VOLUME	442301.731	3760467.291	200.69
LOCATION L0041340	VOLUME	442306.731	3760467.303	200.70
LOCATION L0041341	VOLUME	442311.731	3760467.316	200.73
LOCATION L0041342	VOLUME	442316.731	3760467.328	200.76
LOCATION L0041343	VOLUME	442321.731	3760467.340	200.79
LOCATION L0041344	VOLUME	442326.731	3760467.353	200.82
LOCATION L0041345	VOLUME	442331.731	3760467.365	200.85
LOCATION L0041346	VOLUME	442336.731	3760467.377	200.88
LOCATION L0041347	VOLUME	442341.731	3760467.445	200.90
LOCATION L0041348	VOLUME	442346.730	3760467.521	200.93
LOCATION L0041349	VOLUME	442351.730	3760467.597	200.96
LOCATION L0041350	VOLUME	442356.729	3760467.673	200.98
LOCATION L0041351	VOLUME	442361.728	3760467.748	201.00
LOCATION L0041352	VOLUME	442366.728	3760467.824	201.00
LOCATION L0041353	VOLUME	442371.727	3760467.900	201.00
LOCATION L0041354	VOLUME	442376.727	3760467.976	200.99
LOCATION L0041355	VOLUME	442381.726	3760468.052	200.99
LOCATION L0041356	VOLUME	442386.726	3760468.127	200.99
LOCATION L0041357	VOLUME	442391.725	3760468.203	201.01
LOCATION L0041358	VOLUME	442396.724	3760468.279	201.04
LOCATION L0041359	VOLUME	442401.724	3760468.355	201.06
LOCATION L0041360	VOLUME	442406.723	3760468.431	201.09
LOCATION L0041361	VOLUME	442411.723	3760468.506	201.11
LOCATION L0041362	VOLUME	442416.722	3760468.582	201.13
LOCATION L0041363	VOLUME	442421.722	3760468.658	201.14
LOCATION L0041364	VOLUME	442426.721	3760468.734	201.15
LOCATION L0041365	VOLUME	442431.720	3760468.810	201.17
LOCATION L0041366	VOLUME	442436.720	3760468.885	201.18
LOCATION L0041367	VOLUME	442441.719	3760468.961	201.18
LOCATION L0041368	VOLUME	442446.719	3760469.037	201.18
LOCATION L0041369	VOLUME	442451.718	3760469.113	201.17
LOCATION L0041370	VOLUME	442456.718	3760469.189	201.17
LOCATION L0041371	VOLUME	442461.717	3760469.264	201.17
LOCATION L0041372	VOLUME	442466.716	3760469.340	201.16
LOCATION L0041373	VOLUME	442471.716	3760469.416	201.16
LOCATION L0041374	VOLUME	442476.715	3760469.492	201.15
LOCATION L0041375	VOLUME	442481.715	3760469.567	201.14
LOCATION L0041376	VOLUME	442486.714	3760469.643	201.13
LOCATION L0041377	VOLUME	442491.713	3760469.719	201.13

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LOCATION L0041378	VOLUME	442496.713	3760469.795	201.12
LOCATION L0041379	VOLUME	442501.712	3760469.871	201.11
LOCATION L0041380	VOLUME	442506.712	3760469.860	201.11
LOCATION L0041381	VOLUME	442511.712	3760469.811	201.10
LOCATION L0041382	VOLUME	442516.712	3760469.761	201.09
LOCATION L0041383	VOLUME	442521.711	3760469.711	201.08
LOCATION L0041384	VOLUME	442526.711	3760469.662	201.07
LOCATION L0041385	VOLUME	442531.711	3760469.612	201.06
LOCATION L0041386	VOLUME	442536.711	3760469.562	201.05
LOCATION L0041387	VOLUME	442541.710	3760469.512	201.04
LOCATION L0041388	VOLUME	442546.710	3760469.463	201.03
LOCATION L0041389	VOLUME	442551.710	3760469.413	201.02
LOCATION L0041390	VOLUME	442556.710	3760469.363	201.01
LOCATION L0041391	VOLUME	442561.709	3760469.314	201.00
LOCATION L0041392	VOLUME	442566.709	3760469.264	200.99
LOCATION L0041393	VOLUME	442571.709	3760469.214	200.97
LOCATION L0041394	VOLUME	442576.709	3760469.164	200.96
LOCATION L0041395	VOLUME	442581.708	3760469.115	200.94
LOCATION L0041396	VOLUME	442586.708	3760469.065	200.93
LOCATION L0041397	VOLUME	442591.708	3760469.015	200.91
LOCATION L0041398	VOLUME	442596.708	3760468.966	200.91
LOCATION L0041399	VOLUME	442601.707	3760468.916	200.91
LOCATION L0041400	VOLUME	442606.707	3760468.866	200.90
LOCATION L0041401	VOLUME	442611.707	3760468.816	200.90
LOCATION L0041402	VOLUME	442616.707	3760468.767	200.90
LOCATION L0041403	VOLUME	442621.706	3760468.717	200.90
LOCATION L0041404	VOLUME	442626.706	3760468.667	200.89
LOCATION L0041405	VOLUME	442631.706	3760468.618	200.89
LOCATION L0041406	VOLUME	442636.706	3760468.568	200.89
LOCATION L0041407	VOLUME	442641.705	3760468.518	200.88
LOCATION L0041408	VOLUME	442646.705	3760468.468	200.88
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LOCATION L0041412	VOLUME	442666.704	3760468.270	200.85
LOCATION L0041413	VOLUME	442671.704	3760468.220	200.85
LOCATION L0041414	VOLUME	442676.704	3760468.170	200.84
LOCATION L0041415	VOLUME	442681.703	3760468.120	200.83
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LOCATION L0041417	VOLUME	442691.703	3760468.021	200.82
LOCATION L0041418	VOLUME	442696.703	3760467.971	200.82
LOCATION L0041419	VOLUME	442701.702	3760467.922	200.82
LOCATION L0041420	VOLUME	442706.702	3760467.872	200.83
LOCATION L0041421	VOLUME	442711.702	3760467.822	200.83
LOCATION L0041422	VOLUME	442716.702	3760467.772	200.83
LOCATION L0041423	VOLUME	442721.701	3760467.723	200.84
LOCATION L0041424	VOLUME	442726.701	3760467.673	200.85
LOCATION L0041425	VOLUME	442731.701	3760467.623	200.86

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LOCATION L0041426	VOLUME	442736.701	3760467.574	200.87
LOCATION L0041427	VOLUME	442741.700	3760467.524	200.88
LOCATION L0041428	VOLUME	442746.700	3760467.474	200.89
LOCATION L0041429	VOLUME	442751.700	3760467.424	200.87
LOCATION L0041430	VOLUME	442756.700	3760467.375	200.86
LOCATION L0041431	VOLUME	442761.699	3760467.325	200.85
LOCATION L0041432	VOLUME	442766.699	3760467.275	200.84
LOCATION L0041433	VOLUME	442771.699	3760467.226	200.83
LOCATION L0041434	VOLUME	442776.699	3760467.176	200.83
LOCATION L0041435	VOLUME	442781.698	3760467.126	200.83
LOCATION L0041436	VOLUME	442786.698	3760467.076	200.83
LOCATION L0041437	VOLUME	442791.698	3760467.027	200.83
LOCATION L0041438	VOLUME	442796.698	3760466.977	200.83
LOCATION L0041439	VOLUME	442801.697	3760466.927	200.82
LOCATION L0041440	VOLUME	442806.697	3760466.878	200.82
LOCATION L0041441	VOLUME	442811.697	3760466.828	200.81
LOCATION L0041442	VOLUME	442816.697	3760466.778	200.81
LOCATION L0041443	VOLUME	442821.696	3760466.728	200.81
LOCATION L0041444	VOLUME	442826.696	3760466.679	200.82
LOCATION L0041445	VOLUME	442831.696	3760466.629	200.84
LOCATION L0041446	VOLUME	442836.696	3760466.579	200.87
LOCATION L0041447	VOLUME	442841.695	3760466.530	200.89
LOCATION L0041448	VOLUME	442846.695	3760466.480	200.91
LOCATION L0041449	VOLUME	442851.695	3760466.430	200.93
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LOCATION L0041451	VOLUME	442861.695	3760466.376	200.98
LOCATION L0041452	VOLUME	442866.695	3760466.359	201.01
LOCATION L0041453	VOLUME	442871.695	3760466.341	201.04
LOCATION L0041454	VOLUME	442876.695	3760466.323	201.05
LOCATION L0041455	VOLUME	442881.695	3760466.306	201.07
LOCATION L0041456	VOLUME	442886.695	3760466.288	201.08
LOCATION L0041457	VOLUME	442891.695	3760466.271	201.09
LOCATION L0041458	VOLUME	442896.695	3760466.253	201.10
LOCATION L0041459	VOLUME	442901.695	3760466.235	201.11
LOCATION L0041460	VOLUME	442906.694	3760466.218	201.13
LOCATION L0041461	VOLUME	442911.694	3760466.200	201.15
LOCATION L0041462	VOLUME	442916.694	3760466.183	201.18
LOCATION L0041463	VOLUME	442921.694	3760466.165	201.20
LOCATION L0041464	VOLUME	442926.694	3760466.147	201.22
LOCATION L0041465	VOLUME	442931.694	3760466.130	201.24
LOCATION L0041466	VOLUME	442936.694	3760466.112	201.26
LOCATION L0041467	VOLUME	442941.694	3760466.095	201.29
LOCATION L0041468	VOLUME	442946.694	3760466.077	201.31
LOCATION L0041469	VOLUME	442951.694	3760466.059	201.33
LOCATION L0041470	VOLUME	442956.694	3760466.042	201.35
LOCATION L0041471	VOLUME	442961.694	3760466.024	201.38
LOCATION L0041472	VOLUME	442966.694	3760466.007	201.40
LOCATION L0041473	VOLUME	442971.694	3760465.989	201.42

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LOCATION L0041474	VOLUME	442976.694	3760465.971	201.44
LOCATION L0041475	VOLUME	442981.694	3760465.954	201.50
LOCATION L0041476	VOLUME	442986.694	3760465.952	201.56
LOCATION L0041477	VOLUME	442991.694	3760465.959	201.62
LOCATION L0041478	VOLUME	442996.694	3760465.967	201.68
LOCATION L0041479	VOLUME	443001.694	3760465.974	201.75
LOCATION L0041480	VOLUME	443006.694	3760465.981	201.76
LOCATION L0041481	VOLUME	443011.694	3760465.989	201.77
LOCATION L0041482	VOLUME	443016.694	3760465.996	201.78
LOCATION L0041483	VOLUME	443021.694	3760466.004	201.78
LOCATION L0041484	VOLUME	443026.694	3760466.011	201.79
LOCATION L0041485	VOLUME	443031.694	3760466.018	201.78
LOCATION L0041486	VOLUME	443036.694	3760466.026	201.77
LOCATION L0041487	VOLUME	443041.694	3760466.033	201.75
LOCATION L0041488	VOLUME	443046.694	3760466.040	201.74
LOCATION L0041489	VOLUME	443051.694	3760466.048	201.72
LOCATION L0041490	VOLUME	443056.694	3760466.055	201.72
LOCATION L0041491	VOLUME	443061.694	3760466.062	201.73
LOCATION L0041492	VOLUME	443066.694	3760466.070	201.74
LOCATION L0041493	VOLUME	443071.694	3760466.077	201.75
LOCATION L0041494	VOLUME	443076.694	3760466.084	201.75
LOCATION L0041495	VOLUME	443081.694	3760466.092	201.76
LOCATION L0041496	VOLUME	443086.694	3760466.099	201.78
LOCATION L0041497	VOLUME	443091.694	3760466.106	201.79
LOCATION L0041498	VOLUME	443096.694	3760466.114	201.80
LOCATION L0041499	VOLUME	443101.694	3760466.121	201.81
LOCATION L0041500	VOLUME	443106.694	3760466.129	201.83
LOCATION L0041501	VOLUME	443111.694	3760466.136	201.84
LOCATION L0041502	VOLUME	443116.694	3760466.143	201.86
LOCATION L0041503	VOLUME	443121.694	3760466.151	201.88
LOCATION L0041504	VOLUME	443126.694	3760466.158	201.89
LOCATION L0041505	VOLUME	443131.694	3760466.165	201.91
LOCATION L0041506	VOLUME	443136.694	3760466.173	201.93
LOCATION L0041507	VOLUME	443141.694	3760466.180	201.96
LOCATION L0041508	VOLUME	443146.694	3760466.187	201.98
LOCATION L0041509	VOLUME	443151.694	3760466.195	202.00
LOCATION L0041510	VOLUME	443156.694	3760466.202	202.03
LOCATION L0041511	VOLUME	443161.694	3760466.209	202.08
LOCATION L0041512	VOLUME	443166.694	3760466.217	202.12
LOCATION L0041513	VOLUME	443171.694	3760466.224	202.17
LOCATION L0041514	VOLUME	443176.694	3760466.231	202.21
LOCATION L0041515	VOLUME	443181.694	3760466.239	202.26
LOCATION L0041516	VOLUME	443186.694	3760466.246	202.34
LOCATION L0041517	VOLUME	443191.694	3760466.254	202.42
LOCATION L0041518	VOLUME	443196.694	3760466.261	202.50
LOCATION L0041519	VOLUME	443201.694	3760466.268	202.58
LOCATION L0041520	VOLUME	443206.694	3760466.276	202.66
LOCATION L0041521	VOLUME	443211.694	3760466.283	202.69

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LOCATION L0041522	VOLUME	443216.694	3760466.290	202.71
LOCATION L0041523	VOLUME	443221.694	3760466.298	202.73
LOCATION L0041524	VOLUME	443226.694	3760466.305	202.75
LOCATION L0041525	VOLUME	443231.694	3760466.312	202.76
LOCATION L0041526	VOLUME	443236.694	3760466.320	202.77
LOCATION L0041527	VOLUME	443241.694	3760466.327	202.77
LOCATION L0041528	VOLUME	443246.694	3760466.334	202.76
LOCATION L0041529	VOLUME	443251.694	3760466.342	202.76
LOCATION L0041530	VOLUME	443256.694	3760466.349	202.76
LOCATION L0041531	VOLUME	443261.694	3760466.356	202.77
LOCATION L0041532	VOLUME	443266.694	3760466.364	202.78
LOCATION L0041533	VOLUME	443271.694	3760466.371	202.80
LOCATION L0041534	VOLUME	443276.694	3760466.379	202.82
LOCATION L0041535	VOLUME	443281.694	3760466.386	202.83
LOCATION L0041536	VOLUME	443286.694	3760466.393	202.84
LOCATION L0041537	VOLUME	443291.694	3760466.401	202.85
LOCATION L0041538	VOLUME	443296.694	3760466.394	202.86
LOCATION L0041539	VOLUME	443301.694	3760466.387	202.86
LOCATION L0041540	VOLUME	443306.694	3760466.379	202.87
LOCATION L0041541	VOLUME	443311.694	3760466.372	202.89
LOCATION L0041542	VOLUME	443316.694	3760466.364	202.91
LOCATION L0041543	VOLUME	443321.694	3760466.357	202.94
LOCATION L0041544	VOLUME	443326.694	3760466.349	202.97
LOCATION L0041545	VOLUME	443331.694	3760466.342	202.99
LOCATION L0041546	VOLUME	443336.694	3760466.334	203.02
LOCATION L0041547	VOLUME	443341.694	3760466.327	203.03
LOCATION L0041548	VOLUME	443346.694	3760466.319	203.03
LOCATION L0041549	VOLUME	443351.694	3760466.312	203.04
LOCATION L0041550	VOLUME	443356.694	3760466.304	203.05
LOCATION L0041551	VOLUME	443361.694	3760466.297	203.06
LOCATION L0041552	VOLUME	443366.694	3760466.289	203.08
LOCATION L0041553	VOLUME	443371.694	3760466.281	203.10
LOCATION L0041554	VOLUME	443376.694	3760466.274	203.12
LOCATION L0041555	VOLUME	443381.694	3760466.266	203.14
LOCATION L0041556	VOLUME	443386.694	3760466.259	203.17
LOCATION L0041557	VOLUME	443391.694	3760466.251	203.17
LOCATION L0041558	VOLUME	443396.694	3760466.244	203.17
LOCATION L0041559	VOLUME	443401.694	3760466.236	203.17
LOCATION L0041560	VOLUME	443406.694	3760466.229	203.17
LOCATION L0041561	VOLUME	443411.694	3760466.221	203.17
LOCATION L0041562	VOLUME	443416.694	3760466.214	203.18
LOCATION L0041563	VOLUME	443421.694	3760466.206	203.18
LOCATION L0041564	VOLUME	443426.694	3760466.199	203.18
LOCATION L0041565	VOLUME	443431.694	3760466.191	203.18
LOCATION L0041566	VOLUME	443436.694	3760466.184	203.19
LOCATION L0041567	VOLUME	443441.694	3760466.176	203.19
LOCATION L0041568	VOLUME	443446.693	3760466.169	203.20
LOCATION L0041569	VOLUME	443451.693	3760466.161	203.21

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LOCATION L0041570	VOLUME	443456.693	3760466.153	203.22
LOCATION L0041571	VOLUME	443461.693	3760466.146	203.23
LOCATION L0041572	VOLUME	443466.693	3760466.138	203.24
LOCATION L0041573	VOLUME	443471.693	3760466.131	203.25
LOCATION L0041574	VOLUME	443476.693	3760466.123	203.26
LOCATION L0041575	VOLUME	443481.693	3760466.116	203.27
LOCATION L0041576	VOLUME	443486.693	3760466.108	203.27
LOCATION L0041577	VOLUME	443491.693	3760466.101	203.28
LOCATION L0041578	VOLUME	443496.693	3760466.093	203.27
LOCATION L0041579	VOLUME	443501.693	3760466.086	203.27
LOCATION L0041580	VOLUME	443506.693	3760466.078	203.27
LOCATION L0041581	VOLUME	443511.693	3760466.071	203.26
LOCATION L0041582	VOLUME	443516.693	3760466.063	203.26
LOCATION L0041583	VOLUME	443521.693	3760466.056	203.25
LOCATION L0041584	VOLUME	443526.693	3760466.048	203.25
LOCATION L0041585	VOLUME	443531.693	3760466.041	203.25
LOCATION L0041586	VOLUME	443536.693	3760466.033	203.25
LOCATION L0041587	VOLUME	443541.693	3760466.025	203.24
LOCATION L0041588	VOLUME	443546.693	3760466.018	203.25
LOCATION L0041589	VOLUME	443551.693	3760466.010	203.25
LOCATION L0041590	VOLUME	443556.693	3760466.003	203.25
LOCATION L0041591	VOLUME	443561.693	3760465.995	203.25
LOCATION L0041592	VOLUME	443566.693	3760465.988	203.25
LOCATION L0041593	VOLUME	443571.693	3760465.980	203.26
LOCATION L0041594	VOLUME	443576.693	3760465.973	203.26
LOCATION L0041595	VOLUME	443581.693	3760465.965	203.26
LOCATION L0041596	VOLUME	443586.693	3760465.958	203.26
LOCATION L0041597	VOLUME	443591.693	3760465.950	203.26
LOCATION L0041598	VOLUME	443596.693	3760465.947	203.28
LOCATION L0041599	VOLUME	443601.693	3760465.947	203.29
LOCATION L0041600	VOLUME	443606.693	3760465.947	203.31
LOCATION L0041601	VOLUME	443611.693	3760465.947	203.33
LOCATION L0041602	VOLUME	443616.693	3760465.947	203.35
LOCATION L0041603	VOLUME	443621.693	3760465.947	203.36
LOCATION L0041604	VOLUME	443626.693	3760465.947	203.38
LOCATION L0041605	VOLUME	443631.693	3760465.947	203.39
LOCATION L0041606	VOLUME	443636.693	3760465.947	203.40
LOCATION L0041607	VOLUME	443641.693	3760465.947	203.42
LOCATION L0041608	VOLUME	443646.693	3760465.947	203.43
LOCATION L0041609	VOLUME	443651.693	3760465.947	203.45
LOCATION L0041610	VOLUME	443656.693	3760465.947	203.46
LOCATION L0041611	VOLUME	443661.693	3760465.947	203.48
LOCATION L0041612	VOLUME	443666.693	3760465.947	203.49
LOCATION L0041613	VOLUME	443671.693	3760465.947	203.50
LOCATION L0041614	VOLUME	443676.693	3760465.947	203.51
LOCATION L0041615	VOLUME	443681.693	3760465.951	203.52
LOCATION L0041616	VOLUME	443686.693	3760465.985	203.53
LOCATION L0041617	VOLUME	443691.693	3760466.019	203.53



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LOCATION L0041618	VOLUME	443696.693	3760466.053	203.54
LOCATION L0041619	VOLUME	443701.693	3760466.087	203.55
LOCATION L0041620	VOLUME	443706.693	3760466.121	203.56
LOCATION L0041621	VOLUME	443711.693	3760466.155	203.57
LOCATION L0041622	VOLUME	443716.693	3760466.189	203.58
LOCATION L0041623	VOLUME	443721.692	3760466.223	203.59
LOCATION L0041624	VOLUME	443726.692	3760466.256	203.60
LOCATION L0041625	VOLUME	443731.692	3760466.290	203.62
LOCATION L0041626	VOLUME	443736.692	3760466.324	203.63
LOCATION L0041627	VOLUME	443741.692	3760466.358	203.64
LOCATION L0041628	VOLUME	443746.692	3760466.392	203.65
LOCATION L0041629	VOLUME	443751.692	3760466.426	203.66
LOCATION L0041630	VOLUME	443756.692	3760466.460	203.68
LOCATION L0041631	VOLUME	443761.691	3760466.494	203.70
LOCATION L0041632	VOLUME	443766.691	3760466.528	203.71
LOCATION L0041633	VOLUME	443771.691	3760466.562	203.73
LOCATION L0041634	VOLUME	443776.691	3760466.596	203.75
LOCATION L0041635	VOLUME	443781.691	3760466.630	203.78
LOCATION L0041636	VOLUME	443786.691	3760466.664	203.80
LOCATION L0041637	VOLUME	443791.691	3760466.698	203.83
LOCATION L0041638	VOLUME	443796.691	3760466.732	203.85
LOCATION L0041639	VOLUME	443801.691	3760466.766	203.88
LOCATION L0041640	VOLUME	443806.690	3760466.799	203.90
LOCATION L0041641	VOLUME	443811.690	3760466.833	203.93
LOCATION L0041642	VOLUME	443816.690	3760466.867	203.96
LOCATION L0041643	VOLUME	443821.690	3760466.901	203.98
LOCATION L0041644	VOLUME	443826.690	3760466.935	204.00
LOCATION L0041645	VOLUME	443831.690	3760466.969	204.02
LOCATION L0041646	VOLUME	443836.690	3760467.003	204.04
LOCATION L0041647	VOLUME	443841.690	3760467.037	204.05
LOCATION L0041648	VOLUME	443846.690	3760467.071	204.07
LOCATION L0041649	VOLUME	443851.689	3760467.105	204.10
LOCATION L0041650	VOLUME	443856.689	3760467.139	204.15
LOCATION L0041651	VOLUME	443861.689	3760467.173	204.20
LOCATION L0041652	VOLUME	443866.689	3760467.207	204.25
LOCATION L0041653	VOLUME	443871.689	3760467.241	204.30
LOCATION L0041654	VOLUME	443876.689	3760467.275	204.32
LOCATION L0041655	VOLUME	443881.689	3760467.309	204.32
LOCATION L0041656	VOLUME	443886.689	3760467.309	204.32
LOCATION L0041657	VOLUME	443891.689	3760467.310	204.31
LOCATION L0041658	VOLUME	443896.689	3760467.310	204.30
LOCATION L0041659	VOLUME	443901.689	3760467.310	204.31
LOCATION L0041660	VOLUME	443906.689	3760467.311	204.32
LOCATION L0041661	VOLUME	443911.689	3760467.311	204.34
LOCATION L0041662	VOLUME	443916.689	3760467.311	204.35
LOCATION L0041663	VOLUME	443921.689	3760467.312	204.37
LOCATION L0041664	VOLUME	443926.689	3760467.312	204.39
LOCATION L0041665	VOLUME	443931.689	3760467.312	204.40

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LOCATION L0041666	VOLUME	443936.689	3760467.312	204.42
LOCATION L0041667	VOLUME	443941.689	3760467.312	204.44
LOCATION L0041668	VOLUME	443946.689	3760467.312	204.46
LOCATION L0041669	VOLUME	443951.689	3760467.312	204.47
LOCATION L0041670	VOLUME	443956.689	3760467.312	204.43
LOCATION L0041671	VOLUME	443961.689	3760467.312	204.40
LOCATION L0041672	VOLUME	443966.689	3760467.312	204.36
LOCATION L0041673	VOLUME	443971.689	3760467.312	204.32
LOCATION L0041674	VOLUME	443976.689	3760467.312	204.28
LOCATION L0041675	VOLUME	443981.689	3760467.312	204.21
LOCATION L0041676	VOLUME	443986.666	3760467.088	204.14
LOCATION L0041677	VOLUME	443991.566	3760466.090	204.07
LOCATION L0041678	VOLUME	443996.465	3760465.092	204.00
LOCATION L0041679	VOLUME	444001.364	3760464.094	203.93
LOCATION L0041680	VOLUME	444006.264	3760463.096	203.83
LOCATION L0041681	VOLUME	444011.163	3760462.098	203.73
LOCATION L0041682	VOLUME	444016.062	3760461.100	203.63
LOCATION L0041683	VOLUME	444020.962	3760460.102	203.55
LOCATION L0041684	VOLUME	444025.861	3760459.104	203.47
LOCATION L0041685	VOLUME	444030.761	3760458.106	203.42
LOCATION L0041686	VOLUME	444035.590	3760456.887	203.39
LOCATION L0041687	VOLUME	444040.169	3760454.879	203.36
LOCATION L0041688	VOLUME	444044.748	3760452.871	203.34
LOCATION L0041689	VOLUME	444049.327	3760450.862	203.31
LOCATION L0041690	VOLUME	444053.906	3760448.854	203.29
LOCATION L0041691	VOLUME	444058.485	3760446.846	203.24
LOCATION L0041692	VOLUME	444063.064	3760444.837	203.19
LOCATION L0041693	VOLUME	444067.643	3760442.829	203.14
LOCATION L0041694	VOLUME	444072.221	3760440.821	203.09
LOCATION L0041695	VOLUME	444076.800	3760438.812	203.03
LOCATION L0041696	VOLUME	444081.379	3760436.804	202.97
LOCATION L0041697	VOLUME	444085.958	3760434.796	202.93
LOCATION L0041698	VOLUME	444090.719	3760433.275	202.88
LOCATION L0041699	VOLUME	444095.496	3760431.799	202.82
LOCATION L0041700	VOLUME	444100.273	3760430.322	202.77
LOCATION L0041701	VOLUME	444105.050	3760428.846	202.71
LOCATION L0041702	VOLUME	444109.827	3760427.369	202.69
LOCATION L0041703	VOLUME	444114.604	3760425.893	202.67
LOCATION L0041704	VOLUME	444119.381	3760424.416	202.65
LOCATION L0041705	VOLUME	444124.158	3760422.940	202.63
LOCATION L0041706	VOLUME	444128.935	3760421.463	202.60
LOCATION L0041707	VOLUME	444133.712	3760419.987	202.57
LOCATION L0041708	VOLUME	444138.577	3760418.928	202.52
LOCATION L0041709	VOLUME	444143.544	3760418.351	202.47
LOCATION L0041710	VOLUME	444148.510	3760417.773	202.43
LOCATION L0041711	VOLUME	444153.477	3760417.196	202.38
LOCATION L0041712	VOLUME	444158.443	3760416.618	202.33
LOCATION L0041713	VOLUME	444163.410	3760416.041	202.31

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LOCATION L0041714	VOLUME	444168.376	3760415.463	202.28
LOCATION L0041715	VOLUME	444173.343	3760414.886	202.24
LOCATION L0041716	VOLUME	444178.310	3760414.308	202.21
LOCATION L0041717	VOLUME	444183.276	3760413.731	202.18
LOCATION L0041718	VOLUME	444188.243	3760413.153	202.16
LOCATION L0041719	VOLUME	444193.209	3760412.576	202.15
LOCATION L0041720	VOLUME	444198.198	3760412.359	202.13
LOCATION L0041721	VOLUME	444203.198	3760412.315	202.12
LOCATION L0041722	VOLUME	444208.198	3760412.271	202.10
LOCATION L0041723	VOLUME	444213.198	3760412.227	202.09
LOCATION L0041724	VOLUME	444218.197	3760412.183	202.08
LOCATION L0041725	VOLUME	444223.197	3760412.139	202.06
LOCATION L0041726	VOLUME	444228.197	3760412.096	202.05
LOCATION L0041727	VOLUME	444233.197	3760412.052	202.04
LOCATION L0041728	VOLUME	444238.197	3760412.008	202.03
LOCATION L0041729	VOLUME	444243.196	3760411.964	202.03
LOCATION L0041730	VOLUME	444248.196	3760411.920	202.02
LOCATION L0041731	VOLUME	444253.196	3760411.876	202.01
LOCATION L0041732	VOLUME	444258.196	3760411.832	202.01
LOCATION L0041733	VOLUME	444263.196	3760411.789	202.01
LOCATION L0041734	VOLUME	444268.195	3760411.745	202.01
LOCATION L0041735	VOLUME	444273.195	3760411.701	202.01
LOCATION L0041736	VOLUME	444278.195	3760411.657	202.01
LOCATION L0041737	VOLUME	444283.195	3760411.613	202.01
LOCATION L0041738	VOLUME	444288.195	3760411.569	202.01
LOCATION L0041739	VOLUME	444293.195	3760411.525	202.01
LOCATION L0041740	VOLUME	444298.194	3760411.482	202.01
LOCATION L0041741	VOLUME	444303.194	3760411.438	202.00
LOCATION L0041742	VOLUME	444308.194	3760411.394	202.00
LOCATION L0041743	VOLUME	444313.193	3760411.350	201.99
LOCATION L0041744	VOLUME	444318.193	3760411.306	201.99
LOCATION L0041745	VOLUME	444323.192	3760411.262	201.98
LOCATION L0041746	VOLUME	444328.192	3760411.218	201.97
LOCATION L0041747	VOLUME	444333.191	3760411.174	201.96
LOCATION L0041748	VOLUME	444338.191	3760410.966	201.96
LOCATION L0041749	VOLUME	444343.191	3760410.902	201.96
LOCATION L0041750	VOLUME	444348.190	3760410.837	201.97
LOCATION L0041751	VOLUME	444353.190	3760410.773	201.97
LOCATION L0041752	VOLUME	444358.189	3760410.709	201.98
LOCATION L0041753	VOLUME	444363.189	3760410.644	201.98
LOCATION L0041754	VOLUME	444368.189	3760410.580	201.97
LOCATION L0041755	VOLUME	444373.188	3760410.515	201.96
LOCATION L0041756	VOLUME	444378.188	3760410.451	201.95
LOCATION L0041757	VOLUME	444383.187	3760410.386	201.94
LOCATION L0041758	VOLUME	444388.187	3760410.322	201.93
LOCATION L0041759	VOLUME	444393.186	3760410.257	201.89
LOCATION L0041760	VOLUME	444398.186	3760410.193	201.85
LOCATION L0041761	VOLUME	444403.186	3760410.128	201.81

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LOCATION L0041762	VOLUME	444408.185	3760410.064	201.77
LOCATION L0041763	VOLUME	444413.185	3760409.999	201.73
LOCATION L0041764	VOLUME	444418.184	3760409.935	201.73
LOCATION L0041765	VOLUME	444423.184	3760409.871	201.72
LOCATION L0041766	VOLUME	444428.184	3760409.806	201.71
LOCATION L0041767	VOLUME	444433.183	3760409.742	201.70
LOCATION L0041768	VOLUME	444438.183	3760409.677	201.70
LOCATION L0041769	VOLUME	444443.182	3760409.613	201.71
LOCATION L0041770	VOLUME	444448.182	3760409.548	201.72
LOCATION L0041771	VOLUME	444453.181	3760409.484	201.73
LOCATION L0041772	VOLUME	444458.181	3760409.419	201.74
LOCATION L0041773	VOLUME	444463.181	3760409.355	201.74
LOCATION L0041774	VOLUME	444468.180	3760409.290	201.76
LOCATION L0041775	VOLUME	444473.180	3760409.285	201.78
LOCATION L0041776	VOLUME	444478.180	3760409.304	201.79
LOCATION L0041777	VOLUME	444483.180	3760409.322	201.81
LOCATION L0041778	VOLUME	444488.180	3760409.340	201.83
LOCATION L0041779	VOLUME	444493.180	3760409.358	201.84
LOCATION L0041780	VOLUME	444498.180	3760409.377	201.85
LOCATION L0041781	VOLUME	444503.180	3760409.395	201.86
LOCATION L0041782	VOLUME	444508.180	3760409.413	201.87
LOCATION L0041783	VOLUME	444513.180	3760409.431	201.87
LOCATION L0041784	VOLUME	444518.180	3760409.450	201.89
LOCATION L0041785	VOLUME	444523.180	3760409.468	201.92
LOCATION L0041786	VOLUME	444528.180	3760409.486	201.94
LOCATION L0041787	VOLUME	444533.180	3760409.504	201.96
LOCATION L0041788	VOLUME	444538.180	3760409.523	201.99
LOCATION L0041789	VOLUME	444543.180	3760409.541	202.01
LOCATION L0041790	VOLUME	444548.180	3760409.559	202.04
LOCATION L0041791	VOLUME	444553.180	3760409.577	202.07
LOCATION L0041792	VOLUME	444558.180	3760409.596	202.10
LOCATION L0041793	VOLUME	444563.179	3760409.614	202.12
LOCATION L0041794	VOLUME	444568.179	3760409.632	202.14
LOCATION L0041795	VOLUME	444573.179	3760409.650	202.12
LOCATION L0041796	VOLUME	444578.179	3760409.669	202.10
LOCATION L0041797	VOLUME	444583.179	3760409.687	202.08
LOCATION L0041798	VOLUME	444588.179	3760409.705	202.06
LOCATION L0041799	VOLUME	444593.179	3760409.723	201.95
LOCATION L0041800	VOLUME	444598.179	3760409.742	201.19
LOCATION L0041801	VOLUME	444603.179	3760409.760	200.42
LOCATION L0041802	VOLUME	444608.179	3760409.778	199.65
LOCATION L0041803	VOLUME	444613.179	3760409.796	198.89
LOCATION L0041804	VOLUME	444618.179	3760409.815	198.12
LOCATION L0041805	VOLUME	444623.179	3760409.833	198.02
LOCATION L0041806	VOLUME	444628.179	3760409.851	197.92
LOCATION L0041807	VOLUME	444633.179	3760409.869	197.83
LOCATION L0041808	VOLUME	444638.179	3760409.888	197.73
LOCATION L0041809	VOLUME	444643.178	3760409.855	197.63

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LOCATION L0041810	VOLUME	444648.176	3760409.697	198.34
LOCATION L0041811	VOLUME	444653.173	3760409.539	199.19
LOCATION L0041812	VOLUME	444658.171	3760409.381	200.04
LOCATION L0041813	VOLUME	444663.168	3760409.223	200.88
LOCATION L0041814	VOLUME	444668.166	3760409.065	201.73
LOCATION L0041815	VOLUME	444673.163	3760408.907	201.98
LOCATION L0041816	VOLUME	444678.161	3760408.749	202.01
LOCATION L0041817	VOLUME	444683.158	3760408.590	202.04
LOCATION L0041818	VOLUME	444688.156	3760408.432	202.07
LOCATION L0041819	VOLUME	444693.153	3760408.274	202.09
LOCATION L0041820	VOLUME	444698.151	3760408.116	202.08
LOCATION L0041821	VOLUME	444703.148	3760407.958	202.02
LOCATION L0041822	VOLUME	444708.146	3760407.800	201.97
LOCATION L0041823	VOLUME	444713.143	3760407.642	201.92
LOCATION L0041824	VOLUME	444718.141	3760407.484	201.87
LOCATION L0041825	VOLUME	444723.138	3760407.326	201.82
LOCATION L0041826	VOLUME	444728.136	3760407.167	201.78
LOCATION L0041827	VOLUME	444733.133	3760407.009	201.74
LOCATION L0041828	VOLUME	444738.131	3760406.851	201.69
LOCATION L0041829	VOLUME	444743.128	3760406.693	201.65
LOCATION L0041830	VOLUME	444748.126	3760406.535	201.59
LOCATION L0041831	VOLUME	444753.123	3760406.377	201.49
LOCATION L0041832	VOLUME	444758.121	3760406.219	201.39
LOCATION L0041833	VOLUME	444763.118	3760406.061	201.30
LOCATION L0041834	VOLUME	444768.116	3760405.903	201.20
LOCATION L0041835	VOLUME	444773.113	3760405.745	201.11
LOCATION L0041836	VOLUME	444778.111	3760405.586	201.04
LOCATION L0041837	VOLUME	444783.108	3760405.428	200.97
LOCATION L0041838	VOLUME	444788.106	3760405.270	200.90
LOCATION L0041839	VOLUME	444793.103	3760405.112	200.83
LOCATION L0041840	VOLUME	444798.101	3760404.954	200.77
LOCATION L0041841	VOLUME	444803.098	3760404.796	200.88
LOCATION L0041842	VOLUME	444808.096	3760404.638	200.98
LOCATION L0041843	VOLUME	444813.093	3760404.480	201.09
LOCATION L0041844	VOLUME	444818.091	3760404.322	201.19
LOCATION L0041845	VOLUME	444823.088	3760404.164	201.29
LOCATION L0041846	VOLUME	444828.086	3760404.005	201.28
LOCATION L0041847	VOLUME	444833.083	3760403.847	201.28
LOCATION L0041848	VOLUME	444838.081	3760403.689	201.27
LOCATION L0041849	VOLUME	444843.078	3760403.531	201.26
LOCATION L0041850	VOLUME	444848.076	3760403.394	201.25
LOCATION L0041851	VOLUME	444853.076	3760403.308	201.22
LOCATION L0041852	VOLUME	444858.075	3760403.222	201.19
LOCATION L0041853	VOLUME	444863.074	3760403.136	201.16
LOCATION L0041854	VOLUME	444868.073	3760403.051	201.13
LOCATION L0041855	VOLUME	444873.073	3760402.965	201.09
LOCATION L0041856	VOLUME	444878.072	3760402.879	201.09
LOCATION L0041857	VOLUME	444883.071	3760402.793	201.09

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LOCATION L0041858	VOLUME	444888.070	3760402.707	201.10
LOCATION L0041859	VOLUME	444893.070	3760402.621	201.11
LOCATION L0041860	VOLUME	444898.069	3760402.535	201.11
LOCATION L0041861	VOLUME	444903.068	3760402.449	201.13
LOCATION L0041862	VOLUME	444908.067	3760402.363	201.17
LOCATION L0041863	VOLUME	444913.067	3760402.277	201.20
LOCATION L0041864	VOLUME	444918.066	3760402.191	201.23
LOCATION L0041865	VOLUME	444923.065	3760402.105	201.26
LOCATION L0041866	VOLUME	444928.064	3760402.019	201.30
LOCATION L0041867	VOLUME	444933.064	3760401.933	201.35
LOCATION L0041868	VOLUME	444938.063	3760401.847	201.40
LOCATION L0041869	VOLUME	444943.062	3760401.761	201.45
LOCATION L0041870	VOLUME	444948.061	3760401.675	201.50
LOCATION L0041871	VOLUME	444953.061	3760401.589	201.54
LOCATION L0041872	VOLUME	444958.060	3760401.503	201.57
LOCATION L0041873	VOLUME	444963.059	3760401.418	201.59
LOCATION L0041874	VOLUME	444968.059	3760401.332	201.62
LOCATION L0041875	VOLUME	444973.058	3760401.246	201.64
LOCATION L0041876	VOLUME	444978.057	3760401.160	201.66
LOCATION L0041877	VOLUME	444983.056	3760401.074	201.66
LOCATION L0041878	VOLUME	444988.056	3760400.988	201.66
LOCATION L0041879	VOLUME	444993.055	3760400.902	201.66
LOCATION L0041880	VOLUME	444998.054	3760400.816	201.66
LOCATION L0041881	VOLUME	445003.053	3760400.730	201.66
LOCATION L0041882	VOLUME	445008.053	3760400.644	201.66
LOCATION L0041883	VOLUME	445013.052	3760400.558	201.66
LOCATION L0041884	VOLUME	445018.051	3760400.472	201.66
LOCATION L0041885	VOLUME	445023.050	3760400.386	201.66
LOCATION L0041886	VOLUME	445028.050	3760400.300	201.66
LOCATION L0041887	VOLUME	445033.049	3760400.214	201.67
LOCATION L0041888	VOLUME	445038.048	3760400.128	201.67
LOCATION L0041889	VOLUME	445043.047	3760400.042	201.67
LOCATION L0041890	VOLUME	445048.047	3760399.956	201.68
LOCATION L0041891	VOLUME	445053.046	3760399.870	201.68
LOCATION L0041892	VOLUME	445058.045	3760399.785	201.67
LOCATION L0041893	VOLUME	445063.044	3760399.699	201.66
LOCATION L0041894	VOLUME	445068.044	3760399.613	201.65
LOCATION L0041895	VOLUME	445073.043	3760399.527	201.64
LOCATION L0041896	VOLUME	445078.042	3760399.441	201.63
LOCATION L0041897	VOLUME	445083.042	3760399.355	201.62
LOCATION L0041898	VOLUME	445088.041	3760399.269	201.60
LOCATION L0041899	VOLUME	445093.040	3760399.183	201.59
LOCATION L0041900	VOLUME	445098.039	3760399.097	201.57
LOCATION L0041901	VOLUME	445103.039	3760399.011	201.55
LOCATION L0041902	VOLUME	445108.038	3760398.925	201.57
LOCATION L0041903	VOLUME	445113.037	3760398.839	201.61
LOCATION L0041904	VOLUME	445118.036	3760398.753	201.66
LOCATION L0041905	VOLUME	445123.036	3760398.667	201.71

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LOCATION	VOLUME				
L0041906	445128.035	3760398.581	201.75		
L0041907	445133.034	3760398.495	201.78		
L0041908	445138.033	3760398.409	201.76		
L0041909	445143.033	3760398.323	201.75		
L0041910	445148.032	3760398.237	201.73		
L0041911	445153.029	3760398.316	201.72		
L0041912	445158.026	3760398.511	201.70		
L0041913	445163.022	3760398.707	201.64		
L0041914	445168.018	3760398.902	201.58		
L0041915	445173.014	3760399.097	201.52		
L0041916	445178.010	3760399.293	201.45		
L0041917	445183.006	3760399.488	201.39		
L0041918	445188.003	3760399.684	201.37		
L0041919	445192.999	3760399.879	201.35		

\*\* End of LINE VOLUME Source ID = SLINE5

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE13

\*\* DESCRSRC Merilll Ave - Campus Ave to PA 4 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.38E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440777.137, 3760467.056, 196.68, 3.66, 2.33

\*\* 440991.318, 3760465.615, 197.60, 3.66, 2.33

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LOCATION	VOLUME				
L0041920	440779.637	3760467.039	196.64		
L0041921	440784.637	3760467.005	196.66		
L0041922	440789.637	3760466.972	196.69		
L0041923	440794.637	3760466.938	196.71		
L0041924	440799.637	3760466.904	196.70		
L0041925	440804.637	3760466.871	196.68		
L0041926	440809.637	3760466.837	196.67		
L0041927	440814.637	3760466.803	196.65		
L0041928	440819.636	3760466.770	196.64		
L0041929	440824.636	3760466.736	196.65		
L0041930	440829.636	3760466.703	196.68		
L0041931	440834.636	3760466.669	196.71		
L0041932	440839.636	3760466.635	196.74		
L0041933	440844.636	3760466.602	196.77		
L0041934	440849.636	3760466.568	196.81		
L0041935	440854.636	3760466.534	196.84		
L0041936	440859.635	3760466.501	196.88		
L0041937	440864.635	3760466.467	196.92		
L0041938	440869.635	3760466.433	196.96		

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0041939	440874.635	3760466.400	197.00		
L0041940	440879.635	3760466.366	197.05		
L0041941	440884.635	3760466.333	197.10		
L0041942	440889.635	3760466.299	197.15		
L0041943	440894.635	3760466.265	197.20		
L0041944	440899.635	3760466.232	197.25		
L0041945	440904.634	3760466.198	197.30		
L0041946	440909.634	3760466.164	197.35		
L0041947	440914.634	3760466.131	197.39		
L0041948	440919.634	3760466.097	197.44		
L0041949	440924.634	3760466.063	197.48		
L0041950	440929.634	3760466.030	197.50		
L0041951	440934.634	3760465.996	197.52		
L0041952	440939.634	3760465.963	197.54		
L0041953	440944.634	3760465.929	197.55		
L0041954	440949.633	3760465.895	197.57		
L0041955	440954.633	3760465.862	197.58		
L0041956	440959.633	3760465.828	197.59		
L0041957	440964.633	3760465.794	197.60		
L0041958	440969.633	3760465.761	197.61		
L0041959	440974.633	3760465.727	197.61		
L0041960	440979.633	3760465.693	197.64		
L0041961	440984.633	3760465.660	197.67		
L0041962	440989.633	3760465.626	197.69		

\*\* End of LINE VOLUME Source ID = SLINE13

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE14

\*\* DESCRSRC Merrill Ave - PA 4 Driveway to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.86E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440992.011, 3760465.511, 197.60, 3.66, 2.33

\*\* 441189.978, 3760466.341, 198.57, 3.66, 2.33

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L0041963	440994.511	3760465.522	197.72		
L0041964	440999.511	3760465.543	197.74		
L0041965	441004.511	3760465.564	197.77		
L0041966	441009.511	3760465.585	197.80		
L0041967	441014.511	3760465.606	197.83		
L0041968	441019.511	3760465.627	197.86		
L0041969	441024.511	3760465.647	197.89		
L0041970	441029.511	3760465.668	197.91		
L0041971	441034.511	3760465.689	197.94		



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LOCATION	VOLUME	ADJ1	ADJ2	ADJ3
L0041972	441039.511	3760465.710	197.97	
L0041973	441044.511	3760465.731	198.00	
L0041974	441049.511	3760465.752	198.03	
L0041975	441054.511	3760465.773	198.07	
L0041976	441059.511	3760465.794	198.10	
L0041977	441064.511	3760465.815	198.14	
L0041978	441069.511	3760465.836	198.18	
L0041979	441074.511	3760465.857	198.22	
L0041980	441079.511	3760465.878	198.26	
L0041981	441084.511	3760465.899	198.29	
L0041982	441089.511	3760465.920	198.33	
L0041983	441094.510	3760465.941	198.37	
L0041984	441099.510	3760465.962	198.40	
L0041985	441104.510	3760465.983	198.43	
L0041986	441109.510	3760466.004	198.45	
L0041987	441114.510	3760466.025	198.46	
L0041988	441119.510	3760466.046	198.48	
L0041989	441124.510	3760466.067	198.49	
L0041990	441129.510	3760466.087	198.50	
L0041991	441134.510	3760466.108	198.51	
L0041992	441139.510	3760466.129	198.52	
L0041993	441144.510	3760466.150	198.53	
L0041994	441149.510	3760466.171	198.54	
L0041995	441154.510	3760466.192	198.55	
L0041996	441159.510	3760466.213	198.55	
L0041997	441164.510	3760466.234	198.55	
L0041998	441169.510	3760466.255	198.54	
L0041999	441174.510	3760466.276	198.54	
L0042000	441179.510	3760466.297	198.54	
L0042001	441184.510	3760466.318	198.63	
L0042002	441189.510	3760466.339	198.72	

\*\* End of LINE VOLUME Source ID = SLINE14

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE15

\*\* DESCRSRC Merrill Ave - Bon View Ave to Driveway 7

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.22E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441189.566, 3760466.219, 198.57, 3.66, 2.33

\*\* 441226.937, 3760466.415, 198.66, 3.66, 2.33

\*\* 441552.028, 3760466.314, 199.95, 3.66, 2.33

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LOCATION L0042003	VOLUME	441192.066	3760466.232	198.77
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LOCATION L0042004	VOLUME	441197.066	3760466.259	198.87
LOCATION L0042005	VOLUME	441202.066	3760466.285	198.96
LOCATION L0042006	VOLUME	441207.066	3760466.311	199.02
LOCATION L0042007	VOLUME	441212.066	3760466.337	198.94
LOCATION L0042008	VOLUME	441217.065	3760466.364	198.86
LOCATION L0042009	VOLUME	441222.065	3760466.390	198.78
LOCATION L0042010	VOLUME	441227.065	3760466.415	198.70
LOCATION L0042011	VOLUME	441232.065	3760466.414	198.63
LOCATION L0042012	VOLUME	441237.065	3760466.412	198.63
LOCATION L0042013	VOLUME	441242.065	3760466.411	198.63
LOCATION L0042014	VOLUME	441247.065	3760466.409	198.64
LOCATION L0042015	VOLUME	441252.065	3760466.408	198.64
LOCATION L0042016	VOLUME	441257.065	3760466.406	198.64
LOCATION L0042017	VOLUME	441262.065	3760466.404	198.65
LOCATION L0042018	VOLUME	441267.065	3760466.403	198.66
LOCATION L0042019	VOLUME	441272.065	3760466.401	198.67
LOCATION L0042020	VOLUME	441277.065	3760466.400	198.68
LOCATION L0042021	VOLUME	441282.065	3760466.398	198.69
LOCATION L0042022	VOLUME	441287.065	3760466.397	198.71
LOCATION L0042023	VOLUME	441292.065	3760466.395	198.73
LOCATION L0042024	VOLUME	441297.065	3760466.394	198.75
LOCATION L0042025	VOLUME	441302.065	3760466.392	198.77
LOCATION L0042026	VOLUME	441307.065	3760466.390	198.79
LOCATION L0042027	VOLUME	441312.065	3760466.389	198.81
LOCATION L0042028	VOLUME	441317.065	3760466.387	198.84
LOCATION L0042029	VOLUME	441322.065	3760466.386	198.86
LOCATION L0042030	VOLUME	441327.065	3760466.384	198.88
LOCATION L0042031	VOLUME	441332.065	3760466.383	198.90
LOCATION L0042032	VOLUME	441337.065	3760466.381	198.92
LOCATION L0042033	VOLUME	441342.065	3760466.380	198.94
LOCATION L0042034	VOLUME	441347.065	3760466.378	198.96
LOCATION L0042035	VOLUME	441352.065	3760466.376	198.98
LOCATION L0042036	VOLUME	441357.065	3760466.375	198.99
LOCATION L0042037	VOLUME	441362.065	3760466.373	199.02
LOCATION L0042038	VOLUME	441367.065	3760466.372	199.05
LOCATION L0042039	VOLUME	441372.065	3760466.370	199.08
LOCATION L0042040	VOLUME	441377.065	3760466.369	199.11
LOCATION L0042041	VOLUME	441382.065	3760466.367	199.14
LOCATION L0042042	VOLUME	441387.065	3760466.366	199.17
LOCATION L0042043	VOLUME	441392.065	3760466.364	199.19
LOCATION L0042044	VOLUME	441397.065	3760466.362	199.21
LOCATION L0042045	VOLUME	441402.065	3760466.361	199.23
LOCATION L0042046	VOLUME	441407.065	3760466.359	199.25
LOCATION L0042047	VOLUME	441412.065	3760466.358	199.27
LOCATION L0042048	VOLUME	441417.065	3760466.356	199.28
LOCATION L0042049	VOLUME	441422.065	3760466.355	199.29
LOCATION L0042050	VOLUME	441427.065	3760466.353	199.30
LOCATION L0042051	VOLUME	441432.065	3760466.352	199.31

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042052	441437.065	3760466.350	199.32		
L0042053	441442.065	3760466.348	199.32		
L0042054	441447.065	3760466.347	199.32		
L0042055	441452.065	3760466.345	199.33		
L0042056	441457.065	3760466.344	199.33		
L0042057	441462.065	3760466.342	199.33		
L0042058	441467.065	3760466.341	199.39		
L0042059	441472.065	3760466.339	199.45		
L0042060	441477.065	3760466.338	199.51		
L0042061	441482.065	3760466.336	199.58		
L0042062	441487.065	3760466.335	199.64		
L0042063	441492.065	3760466.333	199.67		
L0042064	441497.065	3760466.331	199.70		
L0042065	441502.065	3760466.330	199.72		
L0042066	441507.065	3760466.328	199.75		
L0042067	441512.065	3760466.327	199.77		
L0042068	441517.065	3760466.325	199.79		
L0042069	441522.065	3760466.324	199.81		
L0042070	441527.065	3760466.322	199.83		
L0042071	441532.065	3760466.321	199.85		
L0042072	441537.065	3760466.319	199.87		
L0042073	441542.065	3760466.317	199.88		
L0042074	441547.065	3760466.316	199.90		

\*\* End of LINE VOLUME Source ID = SLINE15

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE16

\*\* DESCRSRC Merrill Ave - Driveway 7 to PA 5 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.39E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441549.056, 3760466.358, 199.93, 3.66, 2.33

\*\* 441746.603, 3760467.302, 200.08, 3.66, 2.33

\*\* -----

LOCATION L0042075	VOLUME	441551.556	3760466.370	199.91	
LOCATION L0042076	VOLUME	441556.556	3760466.394	199.92	
LOCATION L0042077	VOLUME	441561.556	3760466.418	199.93	
LOCATION L0042078	VOLUME	441566.556	3760466.442	199.94	
LOCATION L0042079	VOLUME	441571.556	3760466.466	199.95	
LOCATION L0042080	VOLUME	441576.556	3760466.490	199.95	
LOCATION L0042081	VOLUME	441581.556	3760466.514	199.96	
LOCATION L0042082	VOLUME	441586.556	3760466.538	199.96	
LOCATION L0042083	VOLUME	441591.556	3760466.561	199.97	
LOCATION L0042084	VOLUME	441596.556	3760466.585	199.98	

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LOCATION L0042085	VOLUME	441601.556	3760466.609	200.00
LOCATION L0042086	VOLUME	441606.556	3760466.633	200.02
LOCATION L0042087	VOLUME	441611.556	3760466.657	200.04
LOCATION L0042088	VOLUME	441616.556	3760466.681	200.06
LOCATION L0042089	VOLUME	441621.556	3760466.705	200.07
LOCATION L0042090	VOLUME	441626.556	3760466.729	200.09
LOCATION L0042091	VOLUME	441631.556	3760466.753	200.11
LOCATION L0042092	VOLUME	441636.555	3760466.776	200.13
LOCATION L0042093	VOLUME	441641.555	3760466.800	200.15
LOCATION L0042094	VOLUME	441646.555	3760466.824	200.15
LOCATION L0042095	VOLUME	441651.555	3760466.848	200.14
LOCATION L0042096	VOLUME	441656.555	3760466.872	200.14
LOCATION L0042097	VOLUME	441661.555	3760466.896	200.13
LOCATION L0042098	VOLUME	441666.555	3760466.920	200.13
LOCATION L0042099	VOLUME	441671.555	3760466.944	200.13
LOCATION L0042100	VOLUME	441676.555	3760466.968	200.13
LOCATION L0042101	VOLUME	441681.555	3760466.991	200.13
LOCATION L0042102	VOLUME	441686.555	3760467.015	200.13
LOCATION L0042103	VOLUME	441691.555	3760467.039	200.13
LOCATION L0042104	VOLUME	441696.555	3760467.063	200.12
LOCATION L0042105	VOLUME	441701.555	3760467.087	200.12
LOCATION L0042106	VOLUME	441706.555	3760467.111	200.11
LOCATION L0042107	VOLUME	441711.555	3760467.135	200.10
LOCATION L0042108	VOLUME	441716.555	3760467.159	200.10
LOCATION L0042109	VOLUME	441721.555	3760467.183	200.09
LOCATION L0042110	VOLUME	441726.554	3760467.207	200.08
LOCATION L0042111	VOLUME	441731.554	3760467.230	200.07
LOCATION L0042112	VOLUME	441736.554	3760467.254	200.06
LOCATION L0042113	VOLUME	441741.554	3760467.278	200.05
LOCATION L0042114	VOLUME	441746.554	3760467.302	200.04

\*\* End of LINE VOLUME Source ID = SLINE16

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE17

\*\* DESCRSRC Merrill Ave - PA 5 Driveway to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.16E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441747.949, 3760467.599, 200.08, 3.66, 2.33

\*\* 441996.174, 3760466.514, 199.90, 3.66, 2.33

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LOCATION L0042115	VOLUME	441750.449	3760467.588	200.04
LOCATION L0042116	VOLUME	441755.449	3760467.566	200.04
LOCATION L0042117	VOLUME	441760.449	3760467.544	200.04

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LOCATION L0042118	VOLUME	441765.449	3760467.522	200.04
LOCATION L0042119	VOLUME	441770.449	3760467.500	200.04
LOCATION L0042120	VOLUME	441775.449	3760467.479	200.05
LOCATION L0042121	VOLUME	441780.448	3760467.457	200.05
LOCATION L0042122	VOLUME	441785.448	3760467.435	200.06
LOCATION L0042123	VOLUME	441790.448	3760467.413	200.06
LOCATION L0042124	VOLUME	441795.448	3760467.391	200.06
LOCATION L0042125	VOLUME	441800.448	3760467.369	200.06
LOCATION L0042126	VOLUME	441805.448	3760467.347	200.06
LOCATION L0042127	VOLUME	441810.448	3760467.326	200.06
LOCATION L0042128	VOLUME	441815.448	3760467.304	200.07
LOCATION L0042129	VOLUME	441820.448	3760467.282	200.07
LOCATION L0042130	VOLUME	441825.448	3760467.260	200.07
LOCATION L0042131	VOLUME	441830.448	3760467.238	200.07
LOCATION L0042132	VOLUME	441835.448	3760467.216	200.07
LOCATION L0042133	VOLUME	441840.448	3760467.195	200.07
LOCATION L0042134	VOLUME	441845.448	3760467.173	200.07
LOCATION L0042135	VOLUME	441850.448	3760467.151	200.07
LOCATION L0042136	VOLUME	441855.448	3760467.129	200.08
LOCATION L0042137	VOLUME	441860.448	3760467.107	200.08
LOCATION L0042138	VOLUME	441865.448	3760467.085	200.09
LOCATION L0042139	VOLUME	441870.448	3760467.063	200.10
LOCATION L0042140	VOLUME	441875.448	3760467.042	200.10
LOCATION L0042141	VOLUME	441880.448	3760467.020	200.11
LOCATION L0042142	VOLUME	441885.447	3760466.998	200.11
LOCATION L0042143	VOLUME	441890.447	3760466.976	200.12
LOCATION L0042144	VOLUME	441895.447	3760466.954	200.13
LOCATION L0042145	VOLUME	441900.447	3760466.932	200.14
LOCATION L0042146	VOLUME	441905.447	3760466.911	200.15
LOCATION L0042147	VOLUME	441910.447	3760466.889	200.16
LOCATION L0042148	VOLUME	441915.447	3760466.867	200.17
LOCATION L0042149	VOLUME	441920.447	3760466.845	200.18
LOCATION L0042150	VOLUME	441925.447	3760466.823	200.19
LOCATION L0042151	VOLUME	441930.447	3760466.801	200.20
LOCATION L0042152	VOLUME	441935.447	3760466.780	200.21
LOCATION L0042153	VOLUME	441940.447	3760466.758	200.22
LOCATION L0042154	VOLUME	441945.447	3760466.736	200.23
LOCATION L0042155	VOLUME	441950.447	3760466.714	200.23
LOCATION L0042156	VOLUME	441955.447	3760466.692	200.20
LOCATION L0042157	VOLUME	441960.447	3760466.670	200.16
LOCATION L0042158	VOLUME	441965.447	3760466.648	200.12
LOCATION L0042159	VOLUME	441970.447	3760466.627	200.08
LOCATION L0042160	VOLUME	441975.447	3760466.605	200.04
LOCATION L0042161	VOLUME	441980.447	3760466.583	200.00
LOCATION L0042162	VOLUME	441985.447	3760466.561	199.96
LOCATION L0042163	VOLUME	441990.446	3760466.539	199.92
LOCATION L0042164	VOLUME	441995.446	3760466.517	199.88

\*\* End of LINE VOLUME Source ID = SLINE17

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** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Bon View Ave - Merrill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.788, 3760470.335, 198.63, 3.66, 2.33
** 441189.788, 3760529.541, 199.52, 3.66, 2.33
** 441190.787, 3760873.923, 201.31, 3.66, 2.33
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LOCATION	L0042165	VOLUME	441189.788	3760472.835	198.87
LOCATION	L0042166	VOLUME	441189.788	3760477.835	198.94
LOCATION	L0042167	VOLUME	441189.788	3760482.835	198.98
LOCATION	L0042168	VOLUME	441189.788	3760487.835	199.03
LOCATION	L0042169	VOLUME	441189.788	3760492.835	199.07
LOCATION	L0042170	VOLUME	441189.788	3760497.835	199.11
LOCATION	L0042171	VOLUME	441189.788	3760502.835	199.16
LOCATION	L0042172	VOLUME	441189.788	3760507.835	199.21
LOCATION	L0042173	VOLUME	441189.788	3760512.835	199.28
LOCATION	L0042174	VOLUME	441189.788	3760517.835	199.35
LOCATION	L0042175	VOLUME	441189.788	3760522.835	199.42
LOCATION	L0042176	VOLUME	441189.788	3760527.835	199.49
LOCATION	L0042177	VOLUME	441189.797	3760532.835	199.56
LOCATION	L0042178	VOLUME	441189.812	3760537.835	199.63
LOCATION	L0042179	VOLUME	441189.826	3760542.835	199.66
LOCATION	L0042180	VOLUME	441189.841	3760547.835	199.69
LOCATION	L0042181	VOLUME	441189.855	3760552.835	199.73
LOCATION	L0042182	VOLUME	441189.870	3760557.835	199.76
LOCATION	L0042183	VOLUME	441189.884	3760562.835	199.79
LOCATION	L0042184	VOLUME	441189.899	3760567.835	199.83
LOCATION	L0042185	VOLUME	441189.913	3760572.835	199.86
LOCATION	L0042186	VOLUME	441189.928	3760577.835	199.90
LOCATION	L0042187	VOLUME	441189.943	3760582.835	199.94
LOCATION	L0042188	VOLUME	441189.957	3760587.835	199.97
LOCATION	L0042189	VOLUME	441189.972	3760592.835	200.01
LOCATION	L0042190	VOLUME	441189.986	3760597.835	200.05
LOCATION	L0042191	VOLUME	441190.001	3760602.835	200.08
LOCATION	L0042192	VOLUME	441190.015	3760607.835	200.12
LOCATION	L0042193	VOLUME	441190.030	3760612.835	200.15
LOCATION	L0042194	VOLUME	441190.044	3760617.835	200.19
LOCATION	L0042195	VOLUME	441190.059	3760622.835	200.22
LOCATION	L0042196	VOLUME	441190.073	3760627.835	200.26
LOCATION	L0042197	VOLUME	441190.088	3760632.835	200.29

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LOCATION L0042198	VOLUME	441190.102	3760637.835	200.32
LOCATION L0042199	VOLUME	441190.117	3760642.835	200.35
LOCATION L0042200	VOLUME	441190.131	3760647.835	200.37
LOCATION L0042201	VOLUME	441190.146	3760652.835	200.40
LOCATION L0042202	VOLUME	441190.160	3760657.835	200.43
LOCATION L0042203	VOLUME	441190.175	3760662.835	200.46
LOCATION L0042204	VOLUME	441190.189	3760667.835	200.48
LOCATION L0042205	VOLUME	441190.204	3760672.834	200.51
LOCATION L0042206	VOLUME	441190.218	3760677.834	200.54
LOCATION L0042207	VOLUME	441190.233	3760682.834	200.56
LOCATION L0042208	VOLUME	441190.247	3760687.834	200.59
LOCATION L0042209	VOLUME	441190.262	3760692.834	200.62
LOCATION L0042210	VOLUME	441190.276	3760697.834	200.65
LOCATION L0042211	VOLUME	441190.291	3760702.834	200.68
LOCATION L0042212	VOLUME	441190.305	3760707.834	200.70
LOCATION L0042213	VOLUME	441190.320	3760712.834	200.73
LOCATION L0042214	VOLUME	441190.334	3760717.834	200.76
LOCATION L0042215	VOLUME	441190.349	3760722.834	200.79
LOCATION L0042216	VOLUME	441190.363	3760727.834	200.81
LOCATION L0042217	VOLUME	441190.378	3760732.834	200.83
LOCATION L0042218	VOLUME	441190.392	3760737.834	200.86
LOCATION L0042219	VOLUME	441190.407	3760742.834	200.88
LOCATION L0042220	VOLUME	441190.421	3760747.834	200.90
LOCATION L0042221	VOLUME	441190.436	3760752.834	200.93
LOCATION L0042222	VOLUME	441190.450	3760757.834	200.95
LOCATION L0042223	VOLUME	441190.465	3760762.834	200.98
LOCATION L0042224	VOLUME	441190.479	3760767.834	201.00
LOCATION L0042225	VOLUME	441190.494	3760772.834	201.03
LOCATION L0042226	VOLUME	441190.508	3760777.834	201.06
LOCATION L0042227	VOLUME	441190.523	3760782.834	201.08
LOCATION L0042228	VOLUME	441190.537	3760787.834	201.10
LOCATION L0042229	VOLUME	441190.552	3760792.834	201.12
LOCATION L0042230	VOLUME	441190.566	3760797.834	201.14
LOCATION L0042231	VOLUME	441190.581	3760802.834	201.16
LOCATION L0042232	VOLUME	441190.595	3760807.834	201.17
LOCATION L0042233	VOLUME	441190.610	3760812.834	201.19
LOCATION L0042234	VOLUME	441190.624	3760817.834	201.21
LOCATION L0042235	VOLUME	441190.639	3760822.834	201.23
LOCATION L0042236	VOLUME	441190.653	3760827.834	201.25
LOCATION L0042237	VOLUME	441190.668	3760832.834	201.27
LOCATION L0042238	VOLUME	441190.682	3760837.834	201.29
LOCATION L0042239	VOLUME	441190.697	3760842.834	201.32
LOCATION L0042240	VOLUME	441190.711	3760847.834	201.34
LOCATION L0042241	VOLUME	441190.726	3760852.834	201.35
LOCATION L0042242	VOLUME	441190.740	3760857.834	201.37
LOCATION L0042243	VOLUME	441190.755	3760862.834	201.39
LOCATION L0042244	VOLUME	441190.769	3760867.834	201.41
LOCATION L0042245	VOLUME	441190.784	3760872.834	201.43

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\*\* End of LINE VOLUME Source ID = SLINE18  
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\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE19  
\*\* DESCRSRC Bon View Ave - PA 4 Driveway to Driveway 1  
\*\* PREFIX  
\*\* Length of Side = 5.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 4.68E-06  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441190.698, 3760873.430, 201.31, 3.66, 2.33  
\*\* 441189.126, 3761142.593, 202.97, 3.66, 2.33  
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LOCATION	L0042246	VOLUME	441190.683	3760875.930	201.44
LOCATION	L0042247	VOLUME	441190.654	3760880.930	201.47
LOCATION	L0042248	VOLUME	441190.625	3760885.930	201.50
LOCATION	L0042249	VOLUME	441190.596	3760890.930	201.53
LOCATION	L0042250	VOLUME	441190.567	3760895.930	201.56
LOCATION	L0042251	VOLUME	441190.537	3760900.930	201.59
LOCATION	L0042252	VOLUME	441190.508	3760905.930	201.62
LOCATION	L0042253	VOLUME	441190.479	3760910.930	201.66
LOCATION	L0042254	VOLUME	441190.450	3760915.930	201.69
LOCATION	L0042255	VOLUME	441190.421	3760920.930	201.73
LOCATION	L0042256	VOLUME	441190.391	3760925.929	201.76
LOCATION	L0042257	VOLUME	441190.362	3760930.929	201.80
LOCATION	L0042258	VOLUME	441190.333	3760935.929	201.83
LOCATION	L0042259	VOLUME	441190.304	3760940.929	201.86
LOCATION	L0042260	VOLUME	441190.274	3760945.929	201.89
LOCATION	L0042261	VOLUME	441190.245	3760950.929	201.93
LOCATION	L0042262	VOLUME	441190.216	3760955.929	201.96
LOCATION	L0042263	VOLUME	441190.187	3760960.929	201.99
LOCATION	L0042264	VOLUME	441190.158	3760965.929	202.02
LOCATION	L0042265	VOLUME	441190.128	3760970.929	202.05
LOCATION	L0042266	VOLUME	441190.099	3760975.929	202.08
LOCATION	L0042267	VOLUME	441190.070	3760980.929	202.11
LOCATION	L0042268	VOLUME	441190.041	3760985.928	202.14
LOCATION	L0042269	VOLUME	441190.012	3760990.928	202.17
LOCATION	L0042270	VOLUME	441189.982	3760995.928	202.20
LOCATION	L0042271	VOLUME	441189.953	3761000.928	202.23
LOCATION	L0042272	VOLUME	441189.924	3761005.928	202.27
LOCATION	L0042273	VOLUME	441189.895	3761010.928	202.30
LOCATION	L0042274	VOLUME	441189.866	3761015.928	202.34
LOCATION	L0042275	VOLUME	441189.836	3761020.928	202.38
LOCATION	L0042276	VOLUME	441189.807	3761025.928	202.42
LOCATION	L0042277	VOLUME	441189.778	3761030.928	202.45
LOCATION	L0042278	VOLUME	441189.749	3761035.928	202.49



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LOCATION L0042279	VOLUME	441189.720	3761040.928	202.52
LOCATION L0042280	VOLUME	441189.690	3761045.927	202.55
LOCATION L0042281	VOLUME	441189.661	3761050.927	202.59
LOCATION L0042282	VOLUME	441189.632	3761055.927	202.62
LOCATION L0042283	VOLUME	441189.603	3761060.927	202.65
LOCATION L0042284	VOLUME	441189.574	3761065.927	202.67
LOCATION L0042285	VOLUME	441189.544	3761070.927	202.69
LOCATION L0042286	VOLUME	441189.515	3761075.927	202.71
LOCATION L0042287	VOLUME	441189.486	3761080.927	202.74
LOCATION L0042288	VOLUME	441189.457	3761085.927	202.76
LOCATION L0042289	VOLUME	441189.428	3761090.927	202.78
LOCATION L0042290	VOLUME	441189.398	3761095.927	202.80
LOCATION L0042291	VOLUME	441189.369	3761100.926	202.83
LOCATION L0042292	VOLUME	441189.340	3761105.926	202.85
LOCATION L0042293	VOLUME	441189.311	3761110.926	202.88
LOCATION L0042294	VOLUME	441189.281	3761115.926	202.90
LOCATION L0042295	VOLUME	441189.252	3761120.926	202.93
LOCATION L0042296	VOLUME	441189.223	3761125.926	202.95
LOCATION L0042297	VOLUME	441189.194	3761130.926	202.98
LOCATION L0042298	VOLUME	441189.165	3761135.926	203.00
LOCATION L0042299	VOLUME	441189.135	3761140.926	203.03

\*\* End of LINE VOLUME Source ID = SLINE19

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE20

\*\* DESCRSRC Bon View Ave - Driveway 1 to Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.41E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441189.027, 3761141.906, 202.97, 3.66, 2.33

\*\* 441189.231, 3761269.136, 204.07, 3.66, 2.33

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LOCATION L0042300	VOLUME	441189.031	3761144.406	203.05
LOCATION L0042301	VOLUME	441189.039	3761149.406	203.07
LOCATION L0042302	VOLUME	441189.047	3761154.406	203.10
LOCATION L0042303	VOLUME	441189.055	3761159.406	203.13
LOCATION L0042304	VOLUME	441189.063	3761164.406	203.16
LOCATION L0042305	VOLUME	441189.071	3761169.406	203.19
LOCATION L0042306	VOLUME	441189.079	3761174.406	203.22
LOCATION L0042307	VOLUME	441189.087	3761179.406	203.25
LOCATION L0042308	VOLUME	441189.095	3761184.406	203.29
LOCATION L0042309	VOLUME	441189.103	3761189.406	203.32
LOCATION L0042310	VOLUME	441189.111	3761194.406	203.35
LOCATION L0042311	VOLUME	441189.119	3761199.406	203.38

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LOCATION L0042312	VOLUME	441189.127	3761204.406	203.42
LOCATION L0042313	VOLUME	441189.135	3761209.406	203.45
LOCATION L0042314	VOLUME	441189.143	3761214.406	203.48
LOCATION L0042315	VOLUME	441189.151	3761219.406	203.53
LOCATION L0042316	VOLUME	441189.159	3761224.406	203.57
LOCATION L0042317	VOLUME	441189.167	3761229.406	203.62
LOCATION L0042318	VOLUME	441189.175	3761234.406	203.66
LOCATION L0042319	VOLUME	441189.183	3761239.406	203.71
LOCATION L0042320	VOLUME	441189.192	3761244.406	203.75
LOCATION L0042321	VOLUME	441189.200	3761249.406	203.81
LOCATION L0042322	VOLUME	441189.208	3761254.406	203.87
LOCATION L0042323	VOLUME	441189.216	3761259.406	203.93
LOCATION L0042324	VOLUME	441189.224	3761264.406	204.00

\*\* End of LINE VOLUME Source ID = SLINE20

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE21

\*\* DESCRSRC Grove Ave - Merrill Ave to Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.23E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441995.174, 3760469.550, 199.90, 3.66, 2.33

\*\* 441994.804, 3760521.346, 200.41, 3.66, 2.33

\*\* 441995.215, 3760854.109, 202.59, 3.66, 2.33

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LOCATION L0042325	VOLUME	441995.156	3760472.050	199.95
LOCATION L0042326	VOLUME	441995.120	3760477.050	200.01
LOCATION L0042327	VOLUME	441995.085	3760482.050	200.07
LOCATION L0042328	VOLUME	441995.049	3760487.050	200.13
LOCATION L0042329	VOLUME	441995.013	3760492.050	200.19
LOCATION L0042330	VOLUME	441994.978	3760497.049	200.25
LOCATION L0042331	VOLUME	441994.942	3760502.049	200.31
LOCATION L0042332	VOLUME	441994.906	3760507.049	200.34
LOCATION L0042333	VOLUME	441994.870	3760512.049	200.37
LOCATION L0042334	VOLUME	441994.835	3760517.049	200.40
LOCATION L0042335	VOLUME	441994.805	3760522.049	200.43
LOCATION L0042336	VOLUME	441994.811	3760527.049	200.47
LOCATION L0042337	VOLUME	441994.817	3760532.049	200.50
LOCATION L0042338	VOLUME	441994.823	3760537.049	200.52
LOCATION L0042339	VOLUME	441994.830	3760542.049	200.55
LOCATION L0042340	VOLUME	441994.836	3760547.049	200.58
LOCATION L0042341	VOLUME	441994.842	3760552.049	200.60
LOCATION L0042342	VOLUME	441994.848	3760557.049	200.63
LOCATION L0042343	VOLUME	441994.854	3760562.049	200.65

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LOCATION L0042344	VOLUME	441994.860	3760567.049	200.68
LOCATION L0042345	VOLUME	441994.867	3760572.049	200.70
LOCATION L0042346	VOLUME	441994.873	3760577.049	200.72
LOCATION L0042347	VOLUME	441994.879	3760582.049	200.75
LOCATION L0042348	VOLUME	441994.885	3760587.049	200.77
LOCATION L0042349	VOLUME	441994.891	3760592.049	200.79
LOCATION L0042350	VOLUME	441994.898	3760597.049	200.82
LOCATION L0042351	VOLUME	441994.904	3760602.049	200.85
LOCATION L0042352	VOLUME	441994.910	3760607.049	200.88
LOCATION L0042353	VOLUME	441994.916	3760612.049	200.91
LOCATION L0042354	VOLUME	441994.922	3760617.049	200.95
LOCATION L0042355	VOLUME	441994.928	3760622.049	200.98
LOCATION L0042356	VOLUME	441994.935	3760627.049	201.01
LOCATION L0042357	VOLUME	441994.941	3760632.049	201.04
LOCATION L0042358	VOLUME	441994.947	3760637.049	201.08
LOCATION L0042359	VOLUME	441994.953	3760642.049	201.11
LOCATION L0042360	VOLUME	441994.959	3760647.049	201.15
LOCATION L0042361	VOLUME	441994.965	3760652.049	201.18
LOCATION L0042362	VOLUME	441994.972	3760657.049	201.21
LOCATION L0042363	VOLUME	441994.978	3760662.049	201.25
LOCATION L0042364	VOLUME	441994.984	3760667.049	201.28
LOCATION L0042365	VOLUME	441994.990	3760672.049	201.32
LOCATION L0042366	VOLUME	441994.996	3760677.049	201.35
LOCATION L0042367	VOLUME	441995.002	3760682.049	201.38
LOCATION L0042368	VOLUME	441995.009	3760687.049	201.42
LOCATION L0042369	VOLUME	441995.015	3760692.049	201.46
LOCATION L0042370	VOLUME	441995.021	3760697.049	201.49
LOCATION L0042371	VOLUME	441995.027	3760702.049	201.53
LOCATION L0042372	VOLUME	441995.033	3760707.049	201.57
LOCATION L0042373	VOLUME	441995.039	3760712.049	201.61
LOCATION L0042374	VOLUME	441995.046	3760717.049	201.64
LOCATION L0042375	VOLUME	441995.052	3760722.049	201.68
LOCATION L0042376	VOLUME	441995.058	3760727.049	201.71
LOCATION L0042377	VOLUME	441995.064	3760732.049	201.75
LOCATION L0042378	VOLUME	441995.070	3760737.049	201.78
LOCATION L0042379	VOLUME	441995.077	3760742.049	201.82
LOCATION L0042380	VOLUME	441995.083	3760747.049	201.85
LOCATION L0042381	VOLUME	441995.089	3760752.049	201.89
LOCATION L0042382	VOLUME	441995.095	3760757.049	201.92
LOCATION L0042383	VOLUME	441995.101	3760762.049	201.96
LOCATION L0042384	VOLUME	441995.107	3760767.049	201.99
LOCATION L0042385	VOLUME	441995.114	3760772.049	202.03
LOCATION L0042386	VOLUME	441995.120	3760777.049	202.06
LOCATION L0042387	VOLUME	441995.126	3760782.049	202.08
LOCATION L0042388	VOLUME	441995.132	3760787.049	202.10
LOCATION L0042389	VOLUME	441995.138	3760792.049	202.13
LOCATION L0042390	VOLUME	441995.144	3760797.049	202.15
LOCATION L0042391	VOLUME	441995.151	3760802.049	202.17

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LOCATION L0042392	VOLUME	441995.157	3760807.049	202.19
LOCATION L0042393	VOLUME	441995.163	3760812.049	202.21
LOCATION L0042394	VOLUME	441995.169	3760817.049	202.24
LOCATION L0042395	VOLUME	441995.175	3760822.049	202.27
LOCATION L0042396	VOLUME	441995.181	3760827.049	202.30
LOCATION L0042397	VOLUME	441995.188	3760832.049	202.33
LOCATION L0042398	VOLUME	441995.194	3760837.049	202.36
LOCATION L0042399	VOLUME	441995.200	3760842.049	202.40
LOCATION L0042400	VOLUME	441995.206	3760847.049	202.43
LOCATION L0042401	VOLUME	441995.212	3760852.049	202.47

\*\* End of LINE VOLUME Source ID = SLINE21

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE22

\*\* DESCRSRC Grove Ave - Driveway #11 to Driveway #9

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.45E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 7

\*\* 441994.958, 3760853.741, 202.59, 3.66, 2.33

\*\* 441994.358, 3761106.578, 204.17, 3.66, 2.33

\*\* 441994.358, 3761250.177, 205.36, 3.66, 2.33

\*\* 441994.358, 3761265.018, 205.35, 3.66, 2.33

\*\* 441992.765, 3761269.907, 205.38, 3.66, 2.33

\*\* 441980.470, 3761269.907, 205.50, 3.66, 2.33

\*\* 441819.956, 3761270.745, 205.64, 3.66, 2.33

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LOCATION L0042402	VOLUME	441994.952	3760856.241	202.50
LOCATION L0042403	VOLUME	441994.940	3760861.241	202.54
LOCATION L0042404	VOLUME	441994.928	3760866.241	202.57
LOCATION L0042405	VOLUME	441994.916	3760871.241	202.61
LOCATION L0042406	VOLUME	441994.904	3760876.241	202.64
LOCATION L0042407	VOLUME	441994.892	3760881.241	202.68
LOCATION L0042408	VOLUME	441994.881	3760886.241	202.71
LOCATION L0042409	VOLUME	441994.869	3760891.241	202.74
LOCATION L0042410	VOLUME	441994.857	3760896.241	202.77
LOCATION L0042411	VOLUME	441994.845	3760901.241	202.81
LOCATION L0042412	VOLUME	441994.833	3760906.241	202.85
LOCATION L0042413	VOLUME	441994.821	3760911.241	202.89
LOCATION L0042414	VOLUME	441994.809	3760916.241	202.93
LOCATION L0042415	VOLUME	441994.798	3760921.241	202.97
LOCATION L0042416	VOLUME	441994.786	3760926.241	203.01
LOCATION L0042417	VOLUME	441994.774	3760931.241	203.05
LOCATION L0042418	VOLUME	441994.762	3760936.241	203.09
LOCATION L0042419	VOLUME	441994.750	3760941.241	203.12

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LOCATION L0042420	VOLUME	441994.738	3760946.241	203.16
LOCATION L0042421	VOLUME	441994.726	3760951.241	203.19
LOCATION L0042422	VOLUME	441994.714	3760956.241	203.23
LOCATION L0042423	VOLUME	441994.703	3760961.241	203.26
LOCATION L0042424	VOLUME	441994.691	3760966.241	203.29
LOCATION L0042425	VOLUME	441994.679	3760971.241	203.33
LOCATION L0042426	VOLUME	441994.667	3760976.241	203.36
LOCATION L0042427	VOLUME	441994.655	3760981.241	203.39
LOCATION L0042428	VOLUME	441994.643	3760986.241	203.42
LOCATION L0042429	VOLUME	441994.631	3760991.241	203.45
LOCATION L0042430	VOLUME	441994.619	3760996.241	203.49
LOCATION L0042431	VOLUME	441994.608	3761001.241	203.52
LOCATION L0042432	VOLUME	441994.596	3761006.241	203.56
LOCATION L0042433	VOLUME	441994.584	3761011.241	203.59
LOCATION L0042434	VOLUME	441994.572	3761016.241	203.63
LOCATION L0042435	VOLUME	441994.560	3761021.241	203.66
LOCATION L0042436	VOLUME	441994.548	3761026.241	203.69
LOCATION L0042437	VOLUME	441994.536	3761031.241	203.71
LOCATION L0042438	VOLUME	441994.525	3761036.241	203.73
LOCATION L0042439	VOLUME	441994.513	3761041.241	203.76
LOCATION L0042440	VOLUME	441994.501	3761046.241	203.78
LOCATION L0042441	VOLUME	441994.489	3761051.241	203.80
LOCATION L0042442	VOLUME	441994.477	3761056.241	203.82
LOCATION L0042443	VOLUME	441994.465	3761061.241	203.85
LOCATION L0042444	VOLUME	441994.453	3761066.241	203.88
LOCATION L0042445	VOLUME	441994.441	3761071.241	203.91
LOCATION L0042446	VOLUME	441994.430	3761076.241	203.94
LOCATION L0042447	VOLUME	441994.418	3761081.241	203.97
LOCATION L0042448	VOLUME	441994.406	3761086.241	204.00
LOCATION L0042449	VOLUME	441994.394	3761091.241	204.03
LOCATION L0042450	VOLUME	441994.382	3761096.241	204.06
LOCATION L0042451	VOLUME	441994.370	3761101.241	204.09
LOCATION L0042452	VOLUME	441994.358	3761106.241	204.12
LOCATION L0042453	VOLUME	441994.358	3761111.241	204.15
LOCATION L0042454	VOLUME	441994.358	3761116.241	204.18
LOCATION L0042455	VOLUME	441994.358	3761121.241	204.21
LOCATION L0042456	VOLUME	441994.358	3761126.241	204.24
LOCATION L0042457	VOLUME	441994.358	3761131.241	204.27
LOCATION L0042458	VOLUME	441994.358	3761136.241	204.30
LOCATION L0042459	VOLUME	441994.358	3761141.241	204.34
LOCATION L0042460	VOLUME	441994.358	3761146.241	204.37
LOCATION L0042461	VOLUME	441994.358	3761151.241	204.41
LOCATION L0042462	VOLUME	441994.358	3761156.241	204.45
LOCATION L0042463	VOLUME	441994.358	3761161.241	204.50
LOCATION L0042464	VOLUME	441994.358	3761166.241	204.54
LOCATION L0042465	VOLUME	441994.358	3761171.241	204.58
LOCATION L0042466	VOLUME	441994.358	3761176.241	204.63
LOCATION L0042467	VOLUME	441994.358	3761181.241	204.68

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LOCATION L0042468	VOLUME	441994.358	3761186.241	204.73
LOCATION L0042469	VOLUME	441994.358	3761191.241	204.79
LOCATION L0042470	VOLUME	441994.358	3761196.241	204.84
LOCATION L0042471	VOLUME	441994.358	3761201.241	204.90
LOCATION L0042472	VOLUME	441994.358	3761206.241	204.95
LOCATION L0042473	VOLUME	441994.358	3761211.241	205.00
LOCATION L0042474	VOLUME	441994.358	3761216.241	205.02
LOCATION L0042475	VOLUME	441994.358	3761221.241	205.05
LOCATION L0042476	VOLUME	441994.358	3761226.241	205.08
LOCATION L0042477	VOLUME	441994.358	3761231.241	205.10
LOCATION L0042478	VOLUME	441994.358	3761236.241	205.13
LOCATION L0042479	VOLUME	441994.358	3761241.241	205.16
LOCATION L0042480	VOLUME	441994.358	3761246.241	205.19
LOCATION L0042481	VOLUME	441994.358	3761251.241	205.22
LOCATION L0042482	VOLUME	441994.358	3761256.241	205.25
LOCATION L0042483	VOLUME	441994.358	3761261.241	205.28
LOCATION L0042484	VOLUME	441993.979	3761266.180	205.31
LOCATION L0042485	VOLUME	441991.684	3761269.907	205.36
LOCATION L0042486	VOLUME	441986.684	3761269.907	205.42
LOCATION L0042487	VOLUME	441981.684	3761269.907	205.48
LOCATION L0042488	VOLUME	441976.684	3761269.927	205.53
LOCATION L0042489	VOLUME	441971.684	3761269.953	205.58
LOCATION L0042490	VOLUME	441966.685	3761269.979	205.62
LOCATION L0042491	VOLUME	441961.685	3761270.005	205.66
LOCATION L0042492	VOLUME	441956.685	3761270.031	205.71
LOCATION L0042493	VOLUME	441951.685	3761270.057	205.72
LOCATION L0042494	VOLUME	441946.685	3761270.083	205.73
LOCATION L0042495	VOLUME	441941.685	3761270.110	205.74
LOCATION L0042496	VOLUME	441936.685	3761270.136	205.74
LOCATION L0042497	VOLUME	441931.685	3761270.162	205.75
LOCATION L0042498	VOLUME	441926.685	3761270.188	205.78
LOCATION L0042499	VOLUME	441921.685	3761270.214	205.82
LOCATION L0042500	VOLUME	441916.685	3761270.240	205.87
LOCATION L0042501	VOLUME	441911.685	3761270.266	205.92
LOCATION L0042502	VOLUME	441906.685	3761270.292	205.96
LOCATION L0042503	VOLUME	441901.685	3761270.318	205.99
LOCATION L0042504	VOLUME	441896.686	3761270.345	206.00
LOCATION L0042505	VOLUME	441891.686	3761270.371	206.00
LOCATION L0042506	VOLUME	441886.686	3761270.397	206.01
LOCATION L0042507	VOLUME	441881.686	3761270.423	206.01
LOCATION L0042508	VOLUME	441876.686	3761270.449	206.01
LOCATION L0042509	VOLUME	441871.686	3761270.475	206.00
LOCATION L0042510	VOLUME	441866.686	3761270.501	206.00
LOCATION L0042511	VOLUME	441861.686	3761270.527	205.99
LOCATION L0042512	VOLUME	441856.686	3761270.554	205.98
LOCATION L0042513	VOLUME	441851.686	3761270.580	205.96
LOCATION L0042514	VOLUME	441846.686	3761270.606	205.90
LOCATION L0042515	VOLUME	441841.686	3761270.632	205.84

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LOCATION L0042516	VOLUME	441836.686	3761270.658	205.78
LOCATION L0042517	VOLUME	441831.686	3761270.684	205.72
LOCATION L0042518	VOLUME	441826.686	3761270.710	205.65
LOCATION L0042519	VOLUME	441821.687	3761270.736	205.63

\*\* End of LINE VOLUME Source ID = SLINE22

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE23

\*\* DESCRSRC Eucalyptus Ave - Bon View Ave to Driveway #4

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.75E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441188.940, 3761269.592, 204.07, 3.66, 2.33

\*\* 441370.765, 3761270.242, 204.91, 3.66, 2.33

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LOCATION L0042520      VOLUME    441191.440   3761269.601   204.08  
LOCATION L0042521      VOLUME    441196.440   3761269.618   204.13  
LOCATION L0042522      VOLUME    441201.440   3761269.636   204.19  
LOCATION L0042523      VOLUME    441206.440   3761269.654   204.24  
LOCATION L0042524      VOLUME    441211.440   3761269.672   204.29  
LOCATION L0042525      VOLUME    441216.440   3761269.690   204.30  
LOCATION L0042526      VOLUME    441221.440   3761269.708   204.32  
LOCATION L0042527      VOLUME    441226.440   3761269.726   204.34  
LOCATION L0042528      VOLUME    441231.440   3761269.744   204.36  
LOCATION L0042529      VOLUME    441236.440   3761269.762   204.38  
LOCATION L0042530      VOLUME    441241.440   3761269.780   204.40  
LOCATION L0042531      VOLUME    441246.440   3761269.797   204.42  
LOCATION L0042532      VOLUME    441251.440   3761269.815   204.44  
LOCATION L0042533      VOLUME    441256.440   3761269.833   204.46  
LOCATION L0042534      VOLUME    441261.440   3761269.851   204.48  
LOCATION L0042535      VOLUME    441266.440   3761269.869   204.49  
LOCATION L0042536      VOLUME    441271.440   3761269.887   204.51  
LOCATION L0042537      VOLUME    441276.440   3761269.905   204.52  
LOCATION L0042538      VOLUME    441281.439   3761269.923   204.53  
LOCATION L0042539      VOLUME    441286.439   3761269.941   204.55  
LOCATION L0042540      VOLUME    441291.439   3761269.959   204.56  
LOCATION L0042541      VOLUME    441296.439   3761269.976   204.58  
LOCATION L0042542      VOLUME    441301.439   3761269.994   204.59  
LOCATION L0042543      VOLUME    441306.439   3761270.012   204.61  
LOCATION L0042544      VOLUME    441311.439   3761270.030   204.62  
LOCATION L0042545      VOLUME    441316.439   3761270.048   204.64  
LOCATION L0042546      VOLUME    441321.439   3761270.066   204.67  
LOCATION L0042547      VOLUME    441326.439   3761270.084   204.69  
LOCATION L0042548      VOLUME    441331.439   3761270.102   204.71

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LOCATION L0042549	VOLUME	441336.439	3761270.120	204.73
LOCATION L0042550	VOLUME	441341.439	3761270.138	204.75
LOCATION L0042551	VOLUME	441346.439	3761270.155	204.77
LOCATION L0042552	VOLUME	441351.439	3761270.173	204.79
LOCATION L0042553	VOLUME	441356.439	3761270.191	204.81
LOCATION L0042554	VOLUME	441361.439	3761270.209	204.82
LOCATION L0042555	VOLUME	441366.439	3761270.227	204.85

\*\* End of LINE VOLUME Source ID = SLINE23

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE24

\*\* DESCRSRC Eucalyptus Ave - Driveway #4 to Driveway #6

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.45E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441367.749, 3761270.269, 204.92, 3.66, 2.33

\*\* 441508.074, 3761269.949, 204.72, 3.66, 2.33

\*\* -----

LOCATION L0042556	VOLUME	441370.249	3761270.263	204.87
LOCATION L0042557	VOLUME	441375.249	3761270.252	204.90
LOCATION L0042558	VOLUME	441380.249	3761270.240	204.92
LOCATION L0042559	VOLUME	441385.249	3761270.229	204.95
LOCATION L0042560	VOLUME	441390.249	3761270.218	204.98
LOCATION L0042561	VOLUME	441395.249	3761270.206	204.99
LOCATION L0042562	VOLUME	441400.249	3761270.195	205.01
LOCATION L0042563	VOLUME	441405.249	3761270.183	205.02
LOCATION L0042564	VOLUME	441410.249	3761270.172	205.04
LOCATION L0042565	VOLUME	441415.249	3761270.161	205.05
LOCATION L0042566	VOLUME	441420.249	3761270.149	205.05
LOCATION L0042567	VOLUME	441425.249	3761270.138	205.05
LOCATION L0042568	VOLUME	441430.249	3761270.126	205.04
LOCATION L0042569	VOLUME	441435.249	3761270.115	205.04
LOCATION L0042570	VOLUME	441440.249	3761270.104	205.03
LOCATION L0042571	VOLUME	441445.249	3761270.092	204.99
LOCATION L0042572	VOLUME	441450.249	3761270.081	204.94
LOCATION L0042573	VOLUME	441455.249	3761270.069	204.88
LOCATION L0042574	VOLUME	441460.249	3761270.058	204.82
LOCATION L0042575	VOLUME	441465.249	3761270.046	204.76
LOCATION L0042576	VOLUME	441470.249	3761270.035	204.69
LOCATION L0042577	VOLUME	441475.249	3761270.024	204.62
LOCATION L0042578	VOLUME	441480.249	3761270.012	204.54
LOCATION L0042579	VOLUME	441485.249	3761270.001	204.46
LOCATION L0042580	VOLUME	441490.249	3761269.989	204.39
LOCATION L0042581	VOLUME	441495.249	3761269.978	204.39



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LOCATION L0042582 VOLUME 441500.249 3761269.967 204.49  
LOCATION L0042583 VOLUME 441505.249 3761269.955 204.60

\*\* End of LINE VOLUME Source ID = SLINE24

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE25

\*\* DESCRSRC Eucalyptus Ave - Driveway #6 to Driveway #8

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.08E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441505.917, 3761269.946, 204.64, 3.66, 2.33

\*\* 441658.896, 3761269.990, 205.41, 3.66, 2.33

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LOCATION L0042584	VOLUME	441508.417	3761269.947	204.67
LOCATION L0042585	VOLUME	441513.417	3761269.948	204.78
LOCATION L0042586	VOLUME	441518.417	3761269.950	204.89
LOCATION L0042587	VOLUME	441523.417	3761269.951	204.89
LOCATION L0042588	VOLUME	441528.417	3761269.953	204.89
LOCATION L0042589	VOLUME	441533.417	3761269.954	204.89
LOCATION L0042590	VOLUME	441538.417	3761269.955	204.89
LOCATION L0042591	VOLUME	441543.417	3761269.957	204.90
LOCATION L0042592	VOLUME	441548.417	3761269.958	204.91
LOCATION L0042593	VOLUME	441553.417	3761269.960	204.93
LOCATION L0042594	VOLUME	441558.417	3761269.961	204.95
LOCATION L0042595	VOLUME	441563.417	3761269.963	204.97
LOCATION L0042596	VOLUME	441568.417	3761269.964	204.99
LOCATION L0042597	VOLUME	441573.417	3761269.965	205.03
LOCATION L0042598	VOLUME	441578.417	3761269.967	205.10
LOCATION L0042599	VOLUME	441583.417	3761269.968	205.16
LOCATION L0042600	VOLUME	441588.417	3761269.970	205.22
LOCATION L0042601	VOLUME	441593.417	3761269.971	205.28
LOCATION L0042602	VOLUME	441598.417	3761269.973	205.34
LOCATION L0042603	VOLUME	441603.417	3761269.974	205.40
LOCATION L0042604	VOLUME	441608.417	3761269.975	205.45
LOCATION L0042605	VOLUME	441613.417	3761269.977	205.50
LOCATION L0042606	VOLUME	441618.417	3761269.978	205.56
LOCATION L0042607	VOLUME	441623.417	3761269.980	205.58
LOCATION L0042608	VOLUME	441628.417	3761269.981	205.55
LOCATION L0042609	VOLUME	441633.417	3761269.983	205.51
LOCATION L0042610	VOLUME	441638.417	3761269.984	205.48
LOCATION L0042611	VOLUME	441643.417	3761269.985	205.45
LOCATION L0042612	VOLUME	441648.417	3761269.987	205.42
LOCATION L0042613	VOLUME	441653.417	3761269.988	205.41
LOCATION L0042614	VOLUME	441658.417	3761269.990	205.40

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```
** End of LINE VOLUME Source ID = SLINE25
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Eucalyptus Ave - Driveway #8 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.18E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.411, 3761270.258, 205.41, 3.66, 2.33
** 441819.475, 3761270.767, 205.64, 3.66, 2.33
** -----
LOCATION L0042615    VOLUME  441661.911 3761270.266 205.40
LOCATION L0042616    VOLUME  441666.911 3761270.282 205.39
LOCATION L0042617    VOLUME  441671.911 3761270.298 205.39
LOCATION L0042618    VOLUME  441676.911 3761270.314 205.39
LOCATION L0042619    VOLUME  441681.911 3761270.330 205.41
LOCATION L0042620    VOLUME  441686.911 3761270.346 205.42
LOCATION L0042621    VOLUME  441691.911 3761270.361 205.43
LOCATION L0042622    VOLUME  441696.911 3761270.377 205.44
LOCATION L0042623    VOLUME  441701.911 3761270.393 205.45
LOCATION L0042624    VOLUME  441706.911 3761270.409 205.45
LOCATION L0042625    VOLUME  441711.911 3761270.425 205.46
LOCATION L0042626    VOLUME  441716.911 3761270.441 205.47
LOCATION L0042627    VOLUME  441721.911 3761270.457 205.47
LOCATION L0042628    VOLUME  441726.910 3761270.473 205.47
LOCATION L0042629    VOLUME  441731.910 3761270.488 205.48
LOCATION L0042630    VOLUME  441736.910 3761270.504 205.48
LOCATION L0042631    VOLUME  441741.910 3761270.520 205.48
LOCATION L0042632    VOLUME  441746.910 3761270.536 205.48
LOCATION L0042633    VOLUME  441751.910 3761270.552 205.48
LOCATION L0042634    VOLUME  441756.910 3761270.568 205.49
LOCATION L0042635    VOLUME  441761.910 3761270.584 205.50
LOCATION L0042636    VOLUME  441766.910 3761270.600 205.51
LOCATION L0042637    VOLUME  441771.910 3761270.616 205.51
LOCATION L0042638    VOLUME  441776.910 3761270.631 205.52
LOCATION L0042639    VOLUME  441781.910 3761270.647 205.53
LOCATION L0042640    VOLUME  441786.910 3761270.663 205.53
LOCATION L0042641    VOLUME  441791.910 3761270.679 205.53
LOCATION L0042642    VOLUME  441796.910 3761270.695 205.54
LOCATION L0042643    VOLUME  441801.910 3761270.711 205.55
LOCATION L0042644    VOLUME  441806.910 3761270.727 205.57
LOCATION L0042645    VOLUME  441811.910 3761270.743 205.59
LOCATION L0042646    VOLUME  441816.910 3761270.758 205.61
** End of LINE VOLUME Source ID = SLINE26
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** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Driveway 4
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.48E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441370.682, 3761269.731, 204.91, 3.66, 2.33
** 441372.563, 3761145.448, 203.68, 3.66, 2.33
** -----

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LOCATION	VOLUME	X	Y	Z
L0042647	441370.720	3761267.231	204.81	
L0042648	441370.795	3761262.232	204.71	
L0042649	441370.871	3761257.232	204.61	
L0042650	441370.947	3761252.233	204.51	
L0042651	441371.022	3761247.234	204.41	
L0042652	441371.098	3761242.234	204.33	
L0042653	441371.174	3761237.235	204.28	
L0042654	441371.249	3761232.235	204.23	
L0042655	441371.325	3761227.236	204.18	
L0042656	441371.401	3761222.236	204.13	
L0042657	441371.476	3761217.237	204.08	
L0042658	441371.552	3761212.238	204.04	
L0042659	441371.628	3761207.238	204.01	
L0042660	441371.703	3761202.239	203.99	
L0042661	441371.779	3761197.239	203.96	
L0042662	441371.855	3761192.240	203.94	
L0042663	441371.930	3761187.240	203.92	
L0042664	441372.006	3761182.241	203.89	
L0042665	441372.082	3761177.242	203.86	
L0042666	441372.157	3761172.242	203.83	
L0042667	441372.233	3761167.243	203.80	
L0042668	441372.309	3761162.243	203.77	
L0042669	441372.384	3761157.244	203.74	
L0042670	441372.460	3761152.245	203.71	
L0042671	441372.535	3761147.245	203.68	

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** End of LINE VOLUME Source ID = SLINE27
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Driveway 6
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.47E-07

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\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441508.279, 3761268.964, 204.73, 3.66, 2.33

\*\* 441508.879, 3761144.904, 203.69, 3.66, 2.33

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LOCATION L0042672      VOLUME  441508.291 3761266.464 204.65
LOCATION L0042673      VOLUME  441508.316 3761261.464 204.61
LOCATION L0042674      VOLUME  441508.340 3761256.464 204.58
LOCATION L0042675      VOLUME  441508.364 3761251.464 204.55
LOCATION L0042676      VOLUME  441508.388 3761246.464 204.52
LOCATION L0042677      VOLUME  441508.412 3761241.464 204.47
LOCATION L0042678      VOLUME  441508.437 3761236.464 204.42
LOCATION L0042679      VOLUME  441508.461 3761231.464 204.36
LOCATION L0042680      VOLUME  441508.485 3761226.464 204.30
LOCATION L0042681      VOLUME  441508.509 3761221.464 204.25
LOCATION L0042682      VOLUME  441508.533 3761216.464 204.19
LOCATION L0042683      VOLUME  441508.557 3761211.464 204.14
LOCATION L0042684      VOLUME  441508.582 3761206.464 204.10
LOCATION L0042685      VOLUME  441508.606 3761201.464 204.06
LOCATION L0042686      VOLUME  441508.630 3761196.465 204.03
LOCATION L0042687      VOLUME  441508.654 3761191.465 203.99
LOCATION L0042688      VOLUME  441508.678 3761186.465 203.96
LOCATION L0042689      VOLUME  441508.702 3761181.465 203.92
LOCATION L0042690      VOLUME  441508.727 3761176.465 203.89
LOCATION L0042691      VOLUME  441508.751 3761171.465 203.85
LOCATION L0042692      VOLUME  441508.775 3761166.465 203.82
LOCATION L0042693      VOLUME  441508.799 3761161.465 203.78
LOCATION L0042694      VOLUME  441508.823 3761156.465 203.75
LOCATION L0042695      VOLUME  441508.848 3761151.465 203.71
LOCATION L0042696      VOLUME  441508.872 3761146.465 203.68

```

\*\* End of LINE VOLUME Source ID = SLINE28

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE29

\*\* DESCRSRC Driveway 8

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.48E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441659.118, 3761269.215, 205.41, 3.66, 2.33

\*\* 441659.907, 3761144.756, 203.99, 3.66, 2.33

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LOCATION L0042697      VOLUME  441659.133 3761266.715 205.37
LOCATION L0042698      VOLUME  441659.165 3761261.715 205.33

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042699	441659.197	SLINE29	3761256.715	205.28	
L0042700	441659.229	SLINE29	3761251.715	205.24	
L0042701	441659.260	SLINE29	3761246.715	205.19	
L0042702	441659.292	SLINE29	3761241.715	205.14	
L0042703	441659.324	SLINE29	3761236.715	205.09	
L0042704	441659.355	SLINE29	3761231.715	205.04	
L0042705	441659.387	SLINE29	3761226.716	204.98	
L0042706	441659.419	SLINE29	3761221.716	204.93	
L0042707	441659.451	SLINE29	3761216.716	204.88	
L0042708	441659.482	SLINE29	3761211.716	204.82	
L0042709	441659.514	SLINE29	3761206.716	204.77	
L0042710	441659.546	SLINE29	3761201.716	204.72	
L0042711	441659.578	SLINE29	3761196.716	204.66	
L0042712	441659.609	SLINE29	3761191.716	204.61	
L0042713	441659.641	SLINE29	3761186.716	204.55	
L0042714	441659.673	SLINE29	3761181.716	204.50	
L0042715	441659.704	SLINE29	3761176.717	204.45	
L0042716	441659.736	SLINE29	3761171.717	204.40	
L0042717	441659.768	SLINE29	3761166.717	204.35	
L0042718	441659.800	SLINE29	3761161.717	204.30	
L0042719	441659.831	SLINE29	3761156.717	204.25	
L0042720	441659.863	SLINE29	3761151.717	204.20	
L0042721	441659.895	SLINE29	3761146.717	204.16	

\*\* End of LINE VOLUME Source ID = SLINE29

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE30

\*\* DESCRSRC Driveway 9

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.89E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441819.214, 3761269.765, 205.63, 3.66, 2.33

\*\* 441818.253, 3761146.627, 204.42, 3.66, 2.33

\*\* -----

LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042722	441819.194	SLINE30	3761267.265	205.60	
L0042723	441819.155	SLINE30	3761262.266	205.57	
L0042724	441819.116	SLINE30	3761257.266	205.55	
L0042725	441819.077	SLINE30	3761252.266	205.52	
L0042726	441819.038	SLINE30	3761247.266	205.49	
L0042727	441818.999	SLINE30	3761242.266	205.46	
L0042728	441818.960	SLINE30	3761237.266	205.41	
L0042729	441818.921	SLINE30	3761232.267	205.35	
L0042730	441818.882	SLINE30	3761227.267	205.29	
L0042731	441818.843	SLINE30	3761222.267	205.22	

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LOCATION	VOLUME				
L0042732	441818.804	3761217.267	205.16		
L0042733	441818.765	3761212.267	205.10		
L0042734	441818.726	3761207.267	205.04		
L0042735	441818.687	3761202.267	204.99		
L0042736	441818.648	3761197.268	204.93		
L0042737	441818.609	3761192.268	204.88		
L0042738	441818.570	3761187.268	204.82		
L0042739	441818.531	3761182.268	204.77		
L0042740	441818.492	3761177.268	204.72		
L0042741	441818.453	3761172.268	204.68		
L0042742	441818.414	3761167.269	204.63		
L0042743	441818.375	3761162.269	204.59		
L0042744	441818.336	3761157.269	204.55		
L0042745	441818.297	3761152.269	204.50		
L0042746	441818.258	3761147.269	204.45		

\*\* End of LINE VOLUME Source ID = SLINE30

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE31

\*\* DESCRSRC On-Site Circulation - Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.99E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441962.653, 3760855.742, 202.78, 3.66, 2.33

\*\* 441536.461, 3760857.831, 202.08, 3.66, 2.33

\*\* -----

LOCATION	VOLUME				
L0042747	441960.153	3760855.754	202.73		
L0042748	441955.153	3760855.778	202.78		
L0042749	441950.153	3760855.803	202.79		
L0042750	441945.153	3760855.827	202.77		
L0042751	441940.153	3760855.852	202.75		
L0042752	441935.153	3760855.876	202.72		
L0042753	441930.153	3760855.901	202.70		
L0042754	441925.153	3760855.926	202.67		
L0042755	441920.153	3760855.950	202.64		
L0042756	441915.153	3760855.975	202.61		
L0042757	441910.153	3760855.999	202.58		
L0042758	441905.153	3760856.024	202.55		
L0042759	441900.153	3760856.048	202.52		
L0042760	441895.153	3760856.073	202.50		
L0042761	441890.153	3760856.097	202.47		
L0042762	441885.153	3760856.122	202.45		
L0042763	441880.154	3760856.146	202.42		
L0042764	441875.154	3760856.171	202.40		

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LOCATION L0042765	VOLUME	441870.154	3760856.195	202.38
LOCATION L0042766	VOLUME	441865.154	3760856.220	202.37
LOCATION L0042767	VOLUME	441860.154	3760856.244	202.36
LOCATION L0042768	VOLUME	441855.154	3760856.269	202.34
LOCATION L0042769	VOLUME	441850.154	3760856.293	202.33
LOCATION L0042770	VOLUME	441845.154	3760856.318	202.33
LOCATION L0042771	VOLUME	441840.154	3760856.342	202.34
LOCATION L0042772	VOLUME	441835.154	3760856.367	202.34
LOCATION L0042773	VOLUME	441830.154	3760856.391	202.34
LOCATION L0042774	VOLUME	441825.154	3760856.416	202.35
LOCATION L0042775	VOLUME	441820.154	3760856.440	202.35
LOCATION L0042776	VOLUME	441815.154	3760856.465	202.35
LOCATION L0042777	VOLUME	441810.154	3760856.489	202.35
LOCATION L0042778	VOLUME	441805.154	3760856.514	202.35
LOCATION L0042779	VOLUME	441800.154	3760856.538	202.35
LOCATION L0042780	VOLUME	441795.155	3760856.563	202.34
LOCATION L0042781	VOLUME	441790.155	3760856.587	202.34
LOCATION L0042782	VOLUME	441785.155	3760856.612	202.34
LOCATION L0042783	VOLUME	441780.155	3760856.636	202.33
LOCATION L0042784	VOLUME	441775.155	3760856.661	202.33
LOCATION L0042785	VOLUME	441770.155	3760856.685	202.32
LOCATION L0042786	VOLUME	441765.155	3760856.710	202.30
LOCATION L0042787	VOLUME	441760.155	3760856.735	202.28
LOCATION L0042788	VOLUME	441755.155	3760856.759	202.26
LOCATION L0042789	VOLUME	441750.155	3760856.784	202.24
LOCATION L0042790	VOLUME	441745.155	3760856.808	202.23
LOCATION L0042791	VOLUME	441740.155	3760856.833	202.21
LOCATION L0042792	VOLUME	441735.155	3760856.857	202.20
LOCATION L0042793	VOLUME	441730.155	3760856.882	202.19
LOCATION L0042794	VOLUME	441725.155	3760856.906	202.18
LOCATION L0042795	VOLUME	441720.155	3760856.931	202.17
LOCATION L0042796	VOLUME	441715.156	3760856.955	202.16
LOCATION L0042797	VOLUME	441710.156	3760856.980	202.15
LOCATION L0042798	VOLUME	441705.156	3760857.004	202.15
LOCATION L0042799	VOLUME	441700.156	3760857.029	202.14
LOCATION L0042800	VOLUME	441695.156	3760857.053	202.13
LOCATION L0042801	VOLUME	441690.156	3760857.078	202.12
LOCATION L0042802	VOLUME	441685.156	3760857.102	202.12
LOCATION L0042803	VOLUME	441680.156	3760857.127	202.11
LOCATION L0042804	VOLUME	441675.156	3760857.151	202.10
LOCATION L0042805	VOLUME	441670.156	3760857.176	202.09
LOCATION L0042806	VOLUME	441665.156	3760857.200	202.09
LOCATION L0042807	VOLUME	441660.156	3760857.225	202.09
LOCATION L0042808	VOLUME	441655.156	3760857.249	202.09
LOCATION L0042809	VOLUME	441650.156	3760857.274	202.09
LOCATION L0042810	VOLUME	441645.156	3760857.298	202.09
LOCATION L0042811	VOLUME	441640.156	3760857.323	202.09
LOCATION L0042812	VOLUME	441635.156	3760857.347	202.09

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LOCATION L0042813	VOLUME	441630.157	3760857.372	202.10
LOCATION L0042814	VOLUME	441625.157	3760857.396	202.10
LOCATION L0042815	VOLUME	441620.157	3760857.421	202.11
LOCATION L0042816	VOLUME	441615.157	3760857.445	202.07
LOCATION L0042817	VOLUME	441610.157	3760857.470	202.03
LOCATION L0042818	VOLUME	441605.157	3760857.494	201.98
LOCATION L0042819	VOLUME	441600.157	3760857.519	201.94
LOCATION L0042820	VOLUME	441595.157	3760857.544	201.89
LOCATION L0042821	VOLUME	441590.157	3760857.568	201.85
LOCATION L0042822	VOLUME	441585.157	3760857.593	201.80
LOCATION L0042823	VOLUME	441580.157	3760857.617	201.75
LOCATION L0042824	VOLUME	441575.157	3760857.642	201.70
LOCATION L0042825	VOLUME	441570.157	3760857.666	201.65
LOCATION L0042826	VOLUME	441565.157	3760857.691	201.67
LOCATION L0042827	VOLUME	441560.157	3760857.715	201.76
LOCATION L0042828	VOLUME	441555.157	3760857.740	201.85
LOCATION L0042829	VOLUME	441550.158	3760857.764	201.94
LOCATION L0042830	VOLUME	441545.158	3760857.789	202.04
LOCATION L0042831	VOLUME	441540.158	3760857.813	202.08

\*\* End of LINE VOLUME Source ID = SLINE31

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE32

\*\* DESCRSRC Driveway 1

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.7E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441191.229, 3761142.587, 202.97, 3.66, 2.33

\*\* 441209.470, 3761142.929, 203.44, 3.66, 2.33

\*\*

LOCATION L0042832	VOLUME	441193.728	3761142.634	203.12
LOCATION L0042833	VOLUME	441198.727	3761142.727	203.21
LOCATION L0042834	VOLUME	441203.726	3761142.821	203.30
LOCATION L0042835	VOLUME	441208.725	3761142.915	203.39

\*\* End of LINE VOLUME Source ID = SLINE32

\*\*

-----  
\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE33

\*\* DESCRSRC Driveway 7

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.81E-07

\*\* Vertical Dimension = 6.22



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\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441552.117, 3760467.647, 199.96, 3.66, 2.33

\*\* 441552.105, 3760491.622, 199.66, 3.66, 2.33

\*\* 441529.849, 3760518.857, 199.56, 3.66, 2.33

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-----
LOCATION L0042836      VOLUME  441552.116 3760470.147 199.95
LOCATION L0042837      VOLUME  441552.113 3760475.147 199.96
LOCATION L0042838      VOLUME  441552.111 3760480.147 199.88
LOCATION L0042839      VOLUME  441552.108 3760485.147 199.81
LOCATION L0042840      VOLUME  441552.106 3760490.147 199.73
LOCATION L0042841      VOLUME  441549.874 3760494.352 199.68
LOCATION L0042842      VOLUME  441546.710 3760498.223 199.63
LOCATION L0042843      VOLUME  441543.546 3760502.095 199.59
LOCATION L0042844      VOLUME  441540.383 3760505.967 199.58
LOCATION L0042845      VOLUME  441537.219 3760509.838 199.58
LOCATION L0042846      VOLUME  441534.055 3760513.710 199.56
LOCATION L0042847      VOLUME  441530.891 3760517.581 199.55

```

\*\* End of LINE VOLUME Source ID = SLINE33

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE34

\*\* DESCRSRC PA 5 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.03E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441746.676, 3760470.154, 200.09, 3.66, 2.33

\*\* 441746.703, 3760499.185, 200.01, 3.66, 2.33

\*\*

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-----
LOCATION L0042848      VOLUME  441746.679 3760472.654 200.09
LOCATION L0042849      VOLUME  441746.683 3760477.654 200.08
LOCATION L0042850      VOLUME  441746.688 3760482.654 200.07
LOCATION L0042851      VOLUME  441746.693 3760487.654 200.05
LOCATION L0042852      VOLUME  441746.697 3760492.654 200.04
LOCATION L0042853      VOLUME  441746.702 3760497.654 200.02

```

\*\* End of LINE VOLUME Source ID = SLINE34

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE35

\*\* DESCRSRC PA 4 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.58E-07

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\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441186.518, 3760874.815, 201.31, 3.66, 2.33

\*\* 441138.711, 3760874.733, 201.46, 3.66, 2.33

\*\*

```

-----
LOCATION L0042854      VOLUME  441184.018 3760874.811 201.33
LOCATION L0042855      VOLUME  441179.018 3760874.802 201.31
LOCATION L0042856      VOLUME  441174.018 3760874.794 201.31
LOCATION L0042857      VOLUME  441169.018 3760874.785 201.32
LOCATION L0042858      VOLUME  441164.018 3760874.776 201.32
LOCATION L0042859      VOLUME  441159.018 3760874.768 201.32
LOCATION L0042860      VOLUME  441154.018 3760874.759 201.34
LOCATION L0042861      VOLUME  441149.018 3760874.750 201.37
LOCATION L0042862      VOLUME  441144.018 3760874.742 201.40
LOCATION L0042863      VOLUME  441139.018 3760874.733 201.42

```

\*\* End of LINE VOLUME Source ID = SLINE35

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE36

\*\* DESCRSRC PA 4 Driveway - Merrill Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.02E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440992.050, 3760468.043, 197.63, 3.66, 2.33

\*\* 440991.934, 3760506.772, 198.71, 3.66, 2.33

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-----
LOCATION L0042864      VOLUME  440992.043 3760470.543 197.77
LOCATION L0042865      VOLUME  440992.028 3760475.543 197.84
LOCATION L0042866      VOLUME  440992.013 3760480.543 197.97
LOCATION L0042867      VOLUME  440991.998 3760485.543 198.10
LOCATION L0042868      VOLUME  440991.983 3760490.543 198.23
LOCATION L0042869      VOLUME  440991.968 3760495.543 198.36
LOCATION L0042870      VOLUME  440991.953 3760500.543 198.49
LOCATION L0042871      VOLUME  440991.937 3760505.543 198.62

```

\*\* End of LINE VOLUME Source ID = SLINE36

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE37

\*\* DESCRSRC Campus Ave - Merill Ave to PA 4 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 4.27E-06

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\*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2  
 \*\* 440778.565, 3760469.565, 196.71, 3.66, 2.33  
 \*\* 440779.948, 3760845.054, 199.45, 3.66, 2.33

\*\* -----

LOCATION	VOLUME	440778.575	3760472.065	196.71
LOCATION L0042872	VOLUME	440778.575	3760472.065	196.71
LOCATION L0042873	VOLUME	440778.593	3760477.065	196.77
LOCATION L0042874	VOLUME	440778.611	3760482.065	196.80
LOCATION L0042875	VOLUME	440778.630	3760487.065	196.83
LOCATION L0042876	VOLUME	440778.648	3760492.065	196.85
LOCATION L0042877	VOLUME	440778.667	3760497.065	196.88
LOCATION L0042878	VOLUME	440778.685	3760502.065	196.91
LOCATION L0042879	VOLUME	440778.704	3760507.064	196.93
LOCATION L0042880	VOLUME	440778.722	3760512.064	196.97
LOCATION L0042881	VOLUME	440778.740	3760517.064	197.01
LOCATION L0042882	VOLUME	440778.759	3760522.064	197.05
LOCATION L0042883	VOLUME	440778.777	3760527.064	197.09
LOCATION L0042884	VOLUME	440778.796	3760532.064	197.13
LOCATION L0042885	VOLUME	440778.814	3760537.064	197.16
LOCATION L0042886	VOLUME	440778.832	3760542.064	197.21
LOCATION L0042887	VOLUME	440778.851	3760547.064	197.25
LOCATION L0042888	VOLUME	440778.869	3760552.064	197.29
LOCATION L0042889	VOLUME	440778.888	3760557.064	197.33
LOCATION L0042890	VOLUME	440778.906	3760562.064	197.37
LOCATION L0042891	VOLUME	440778.925	3760567.064	197.41
LOCATION L0042892	VOLUME	440778.943	3760572.064	197.45
LOCATION L0042893	VOLUME	440778.961	3760577.064	197.49
LOCATION L0042894	VOLUME	440778.980	3760582.064	197.54
LOCATION L0042895	VOLUME	440778.998	3760587.064	197.58
LOCATION L0042896	VOLUME	440779.017	3760592.064	197.62
LOCATION L0042897	VOLUME	440779.035	3760597.064	197.67
LOCATION L0042898	VOLUME	440779.053	3760602.064	197.71
LOCATION L0042899	VOLUME	440779.072	3760607.064	197.75
LOCATION L0042900	VOLUME	440779.090	3760612.064	197.79
LOCATION L0042901	VOLUME	440779.109	3760617.064	197.83
LOCATION L0042902	VOLUME	440779.127	3760622.064	197.87
LOCATION L0042903	VOLUME	440779.146	3760627.064	197.91
LOCATION L0042904	VOLUME	440779.164	3760632.064	197.95
LOCATION L0042905	VOLUME	440779.182	3760637.064	198.00
LOCATION L0042906	VOLUME	440779.201	3760642.064	198.04
LOCATION L0042907	VOLUME	440779.219	3760647.064	198.08
LOCATION L0042908	VOLUME	440779.238	3760652.064	198.13
LOCATION L0042909	VOLUME	440779.256	3760657.063	198.17
LOCATION L0042910	VOLUME	440779.274	3760662.063	198.22
LOCATION L0042911	VOLUME	440779.293	3760667.063	198.26
LOCATION L0042912	VOLUME	440779.311	3760672.063	198.31
LOCATION L0042913	VOLUME	440779.330	3760677.063	198.35

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LOCATION	VOLUME	440779.348	3760682.063	198.40
LOCATION L0042914	VOLUME	440779.348	3760682.063	198.40
LOCATION L0042915	VOLUME	440779.367	3760687.063	198.44
LOCATION L0042916	VOLUME	440779.385	3760692.063	198.49
LOCATION L0042917	VOLUME	440779.403	3760697.063	198.53
LOCATION L0042918	VOLUME	440779.422	3760702.063	198.57
LOCATION L0042919	VOLUME	440779.440	3760707.063	198.60
LOCATION L0042920	VOLUME	440779.459	3760712.063	198.64
LOCATION L0042921	VOLUME	440779.477	3760717.063	198.68
LOCATION L0042922	VOLUME	440779.495	3760722.063	198.71
LOCATION L0042923	VOLUME	440779.514	3760727.063	198.75
LOCATION L0042924	VOLUME	440779.532	3760732.063	198.78
LOCATION L0042925	VOLUME	440779.551	3760737.063	198.81
LOCATION L0042926	VOLUME	440779.569	3760742.063	198.84
LOCATION L0042927	VOLUME	440779.588	3760747.063	198.87
LOCATION L0042928	VOLUME	440779.606	3760752.063	198.91
LOCATION L0042929	VOLUME	440779.624	3760757.063	198.96
LOCATION L0042930	VOLUME	440779.643	3760762.063	199.05
LOCATION L0042931	VOLUME	440779.661	3760767.063	199.13
LOCATION L0042932	VOLUME	440779.680	3760772.063	199.22
LOCATION L0042933	VOLUME	440779.698	3760777.063	199.31
LOCATION L0042934	VOLUME	440779.716	3760782.063	199.39
LOCATION L0042935	VOLUME	440779.735	3760787.063	199.46
LOCATION L0042936	VOLUME	440779.753	3760792.063	199.47
LOCATION L0042937	VOLUME	440779.772	3760797.063	199.49
LOCATION L0042938	VOLUME	440779.790	3760802.062	199.50
LOCATION L0042939	VOLUME	440779.808	3760807.062	199.51
LOCATION L0042940	VOLUME	440779.827	3760812.062	199.53
LOCATION L0042941	VOLUME	440779.845	3760817.062	199.54
LOCATION L0042942	VOLUME	440779.864	3760822.062	199.52
LOCATION L0042943	VOLUME	440779.882	3760827.062	199.51
LOCATION L0042944	VOLUME	440779.901	3760832.062	199.50
LOCATION L0042945	VOLUME	440779.919	3760837.062	199.49
LOCATION L0042946	VOLUME	440779.937	3760842.062	199.47

\*\* End of LINE VOLUME Source ID = SLINE37

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE38

\*\* DESCRSRC Campus Ave - PA 4 Driveway to PA 3 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.36E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.580, 3760844.831, 199.44, 3.66, 2.33

\*\* 440779.840, 3761143.700, 202.02, 3.66, 2.33

\*\*

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LOCATION L0042947	VOLUME	440779.582	3760847.331	199.46
LOCATION L0042948	VOLUME	440779.587	3760852.331	199.49
LOCATION L0042949	VOLUME	440779.591	3760857.331	199.52
LOCATION L0042950	VOLUME	440779.595	3760862.331	199.55
LOCATION L0042951	VOLUME	440779.600	3760867.331	199.58
LOCATION L0042952	VOLUME	440779.604	3760872.331	199.62
LOCATION L0042953	VOLUME	440779.609	3760877.331	199.65
LOCATION L0042954	VOLUME	440779.613	3760882.331	199.68
LOCATION L0042955	VOLUME	440779.617	3760887.331	199.72
LOCATION L0042956	VOLUME	440779.622	3760892.331	199.76
LOCATION L0042957	VOLUME	440779.626	3760897.331	199.80
LOCATION L0042958	VOLUME	440779.630	3760902.331	199.83
LOCATION L0042959	VOLUME	440779.635	3760907.331	199.87
LOCATION L0042960	VOLUME	440779.639	3760912.331	199.91
LOCATION L0042961	VOLUME	440779.643	3760917.331	199.95
LOCATION L0042962	VOLUME	440779.648	3760922.331	199.98
LOCATION L0042963	VOLUME	440779.652	3760927.331	200.02
LOCATION L0042964	VOLUME	440779.656	3760932.331	200.06
LOCATION L0042965	VOLUME	440779.661	3760937.331	200.10
LOCATION L0042966	VOLUME	440779.665	3760942.331	200.13
LOCATION L0042967	VOLUME	440779.669	3760947.331	200.17
LOCATION L0042968	VOLUME	440779.674	3760952.331	200.21
LOCATION L0042969	VOLUME	440779.678	3760957.331	200.24
LOCATION L0042970	VOLUME	440779.682	3760962.331	200.28
LOCATION L0042971	VOLUME	440779.687	3760967.331	200.32
LOCATION L0042972	VOLUME	440779.691	3760972.331	200.36
LOCATION L0042973	VOLUME	440779.695	3760977.331	200.39
LOCATION L0042974	VOLUME	440779.700	3760982.331	200.43
LOCATION L0042975	VOLUME	440779.704	3760987.331	200.47
LOCATION L0042976	VOLUME	440779.708	3760992.331	200.51
LOCATION L0042977	VOLUME	440779.713	3760997.331	200.55
LOCATION L0042978	VOLUME	440779.717	3761002.331	200.59
LOCATION L0042979	VOLUME	440779.721	3761007.331	200.63
LOCATION L0042980	VOLUME	440779.726	3761012.331	200.66
LOCATION L0042981	VOLUME	440779.730	3761017.331	200.70
LOCATION L0042982	VOLUME	440779.734	3761022.331	200.74
LOCATION L0042983	VOLUME	440779.739	3761027.331	200.78
LOCATION L0042984	VOLUME	440779.743	3761032.331	200.81
LOCATION L0042985	VOLUME	440779.747	3761037.331	200.85
LOCATION L0042986	VOLUME	440779.752	3761042.331	200.89
LOCATION L0042987	VOLUME	440779.756	3761047.331	200.93
LOCATION L0042988	VOLUME	440779.760	3761052.331	200.97
LOCATION L0042989	VOLUME	440779.765	3761057.331	201.01
LOCATION L0042990	VOLUME	440779.769	3761062.331	201.05
LOCATION L0042991	VOLUME	440779.773	3761067.331	201.09
LOCATION L0042992	VOLUME	440779.778	3761072.331	201.13
LOCATION L0042993	VOLUME	440779.782	3761077.331	201.17
LOCATION L0042994	VOLUME	440779.786	3761082.331	201.21

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042995	440779.791	SLINE38	3761087.331	201.25	
L0042996	440779.795	SLINE38	3761092.331	201.29	
L0042997	440779.799	SLINE38	3761097.331	201.33	
L0042998	440779.804	SLINE38	3761102.331	201.38	
L0042999	440779.808	SLINE38	3761107.331	201.43	
L0043000	440779.812	SLINE38	3761112.331	201.47	
L0043001	440779.817	SLINE38	3761117.331	201.52	
L0043002	440779.821	SLINE38	3761122.331	201.56	
L0043003	440779.825	SLINE38	3761127.331	201.61	
L0043004	440779.830	SLINE38	3761132.331	201.67	
L0043005	440779.834	SLINE38	3761137.331	201.72	
L0043006	440779.838	SLINE38	3761142.331	201.78	

\*\* End of LINE VOLUME Source ID = SLINE38

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE39

\*\* DESCRSRC Campus Ave - PA 3 Driveway to Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.69E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.648, 3761144.185, 202.03, 3.66, 2.33

\*\* 440779.529, 3761266.902, 203.58, 3.66, 2.33

\*\*

LOCATION L0043007	VOLUME 440779.645	3761146.685	201.83
LOCATION L0043008	VOLUME 440779.641	3761151.685	201.88
LOCATION L0043009	VOLUME 440779.636	3761156.685	201.94
LOCATION L0043010	VOLUME 440779.631	3761161.685	201.99
LOCATION L0043011	VOLUME 440779.626	3761166.685	202.05
LOCATION L0043012	VOLUME 440779.621	3761171.685	202.10
LOCATION L0043013	VOLUME 440779.616	3761176.685	202.15
LOCATION L0043014	VOLUME 440779.611	3761181.685	202.21
LOCATION L0043015	VOLUME 440779.607	3761186.685	202.26
LOCATION L0043016	VOLUME 440779.602	3761191.685	202.33
LOCATION L0043017	VOLUME 440779.597	3761196.685	202.39
LOCATION L0043018	VOLUME 440779.592	3761201.685	202.45
LOCATION L0043019	VOLUME 440779.587	3761206.685	202.51
LOCATION L0043020	VOLUME 440779.582	3761211.685	202.58
LOCATION L0043021	VOLUME 440779.577	3761216.685	202.64
LOCATION L0043022	VOLUME 440779.573	3761221.685	202.72
LOCATION L0043023	VOLUME 440779.568	3761226.685	202.81
LOCATION L0043024	VOLUME 440779.563	3761231.685	202.90
LOCATION L0043025	VOLUME 440779.558	3761236.685	202.99
LOCATION L0043026	VOLUME 440779.553	3761241.685	203.07
LOCATION L0043027	VOLUME 440779.548	3761246.685	203.16

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LOCATION L0043028	VOLUME	440779.543	3761251.685	203.25
LOCATION L0043029	VOLUME	440779.539	3761256.685	203.35
LOCATION L0043030	VOLUME	440779.534	3761261.685	203.44
LOCATION L0043031	VOLUME	440779.529	3761266.685	203.54

\*\* End of LINE VOLUME Source ID = SLINE39

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE40

\*\* DESCRSRC Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.25E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.198, 3761269.224, 203.65, 3.66, 2.33

\*\* 440942.586, 3761268.039, 204.11, 3.66, 2.33

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LOCATION L0043032 VOLUME 440781.698 3761269.206 203.59  
LOCATION L0043033 VOLUME 440786.698 3761269.170 203.59  
LOCATION L0043034 VOLUME 440791.698 3761269.133 203.59  
LOCATION L0043035 VOLUME 440796.698 3761269.097 203.59  
LOCATION L0043036 VOLUME 440801.698 3761269.061 203.60  
LOCATION L0043037 VOLUME 440806.698 3761269.025 203.62  
LOCATION L0043038 VOLUME 440811.697 3761268.988 203.63  
LOCATION L0043039 VOLUME 440816.697 3761268.952 203.64  
LOCATION L0043040 VOLUME 440821.697 3761268.916 203.66  
LOCATION L0043041 VOLUME 440826.697 3761268.879 203.68  
LOCATION L0043042 VOLUME 440831.697 3761268.843 203.72  
LOCATION L0043043 VOLUME 440836.697 3761268.807 203.77  
LOCATION L0043044 VOLUME 440841.697 3761268.771 203.81  
LOCATION L0043045 VOLUME 440846.697 3761268.734 203.86  
LOCATION L0043046 VOLUME 440851.696 3761268.698 203.90  
LOCATION L0043047 VOLUME 440856.696 3761268.662 203.91  
LOCATION L0043048 VOLUME 440861.696 3761268.626 203.93  
LOCATION L0043049 VOLUME 440866.696 3761268.589 203.94  
LOCATION L0043050 VOLUME 440871.696 3761268.553 203.95  
LOCATION L0043051 VOLUME 440876.696 3761268.517 203.96  
LOCATION L0043052 VOLUME 440881.696 3761268.481 203.98  
LOCATION L0043053 VOLUME 440886.695 3761268.444 203.99  
LOCATION L0043054 VOLUME 440891.695 3761268.408 204.00  
LOCATION L0043055 VOLUME 440896.695 3761268.372 204.01  
LOCATION L0043056 VOLUME 440901.695 3761268.336 204.02  
LOCATION L0043057 VOLUME 440906.695 3761268.299 204.04  
LOCATION L0043058 VOLUME 440911.695 3761268.263 204.05  
LOCATION L0043059 VOLUME 440916.695 3761268.227 204.06  
LOCATION L0043060 VOLUME 440921.695 3761268.191 204.07

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LOCATION L0043061	VOLUME	440926.694	3761268.154	204.08
LOCATION L0043062	VOLUME	440931.694	3761268.118	204.09
LOCATION L0043063	VOLUME	440936.694	3761268.082	204.09
LOCATION L0043064	VOLUME	440941.694	3761268.045	204.09

\*\* End of LINE VOLUME Source ID = SLINE40

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE41

\*\* DESCRSRC Eucalyptus Ave - PA 3 Driveway to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.39E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440942.599, 3761268.120, 204.11, 3.66, 2.33

\*\* 441189.790, 3761269.451, 204.07, 3.66, 2.33

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LOCATION L0043065      VOLUME    440945.099    3761268.133    204.09  
LOCATION L0043066      VOLUME    440950.099    3761268.160    204.09  
LOCATION L0043067      VOLUME    440955.099    3761268.187    204.09  
LOCATION L0043068      VOLUME    440960.098    3761268.214    204.10  
LOCATION L0043069      VOLUME    440965.098    3761268.241    204.10  
LOCATION L0043070      VOLUME    440970.098    3761268.268    204.11  
LOCATION L0043071      VOLUME    440975.098    3761268.295    204.11  
LOCATION L0043072      VOLUME    440980.098    3761268.322    204.12  
LOCATION L0043073      VOLUME    440985.098    3761268.349    204.13  
LOCATION L0043074      VOLUME    440990.098    3761268.376    204.15  
LOCATION L0043075      VOLUME    440995.098    3761268.402    204.16  
LOCATION L0043076      VOLUME    441000.098    3761268.429    204.18  
LOCATION L0043077      VOLUME    441005.098    3761268.456    204.20  
LOCATION L0043078      VOLUME    441010.098    3761268.483    204.20  
LOCATION L0043079      VOLUME    441015.098    3761268.510    204.20  
LOCATION L0043080      VOLUME    441020.098    3761268.537    204.20  
LOCATION L0043081      VOLUME    441025.098    3761268.564    204.20  
LOCATION L0043082      VOLUME    441030.097    3761268.591    204.20  
LOCATION L0043083      VOLUME    441035.097    3761268.618    204.19  
LOCATION L0043084      VOLUME    441040.097    3761268.645    204.17  
LOCATION L0043085      VOLUME    441045.097    3761268.672    204.15  
LOCATION L0043086      VOLUME    441050.097    3761268.699    204.13  
LOCATION L0043087      VOLUME    441055.097    3761268.725    204.11  
LOCATION L0043088      VOLUME    441060.097    3761268.752    204.09  
LOCATION L0043089      VOLUME    441065.097    3761268.779    204.08  
LOCATION L0043090      VOLUME    441070.097    3761268.806    204.06  
LOCATION L0043091      VOLUME    441075.097    3761268.833    204.05  
LOCATION L0043092      VOLUME    441080.097    3761268.860    204.03  
LOCATION L0043093      VOLUME    441085.097    3761268.887    204.02



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LOCATION L0043094	VOLUME	441090.097	3761268.914	204.01
LOCATION L0043095	VOLUME	441095.097	3761268.941	204.01
LOCATION L0043096	VOLUME	441100.096	3761268.968	204.00
LOCATION L0043097	VOLUME	441105.096	3761268.995	203.99
LOCATION L0043098	VOLUME	441110.096	3761269.022	204.00
LOCATION L0043099	VOLUME	441115.096	3761269.048	204.01
LOCATION L0043100	VOLUME	441120.096	3761269.075	204.03
LOCATION L0043101	VOLUME	441125.096	3761269.102	204.04
LOCATION L0043102	VOLUME	441130.096	3761269.129	204.06
LOCATION L0043103	VOLUME	441135.096	3761269.156	204.07
LOCATION L0043104	VOLUME	441140.096	3761269.183	204.08
LOCATION L0043105	VOLUME	441145.096	3761269.210	204.09
LOCATION L0043106	VOLUME	441150.096	3761269.237	204.10
LOCATION L0043107	VOLUME	441155.096	3761269.264	204.10
LOCATION L0043108	VOLUME	441160.096	3761269.291	204.11
LOCATION L0043109	VOLUME	441165.096	3761269.318	204.09
LOCATION L0043110	VOLUME	441170.095	3761269.344	204.07
LOCATION L0043111	VOLUME	441175.095	3761269.371	204.05
LOCATION L0043112	VOLUME	441180.095	3761269.398	204.04
LOCATION L0043113	VOLUME	441185.095	3761269.425	204.02

\*\* End of LINE VOLUME Source ID = SLINE41

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE42

\*\* DESCRSRC PA 3 Driveway - Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.83E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441186.476, 3761151.616, 203.01, 3.66, 2.33

\*\* 441133.863, 3761152.910, 202.93, 3.66, 2.33

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LOCATION L0043114	VOLUME	441183.977	3761151.677	203.00
LOCATION L0043115	VOLUME	441178.979	3761151.800	202.96
LOCATION L0043116	VOLUME	441173.980	3761151.923	202.92
LOCATION L0043117	VOLUME	441168.982	3761152.046	202.88
LOCATION L0043118	VOLUME	441163.983	3761152.169	202.84
LOCATION L0043119	VOLUME	441158.985	3761152.292	202.80
LOCATION L0043120	VOLUME	441153.986	3761152.415	202.82
LOCATION L0043121	VOLUME	441148.988	3761152.538	202.85
LOCATION L0043122	VOLUME	441143.989	3761152.661	202.87
LOCATION L0043123	VOLUME	441138.991	3761152.784	202.90
LOCATION L0043124	VOLUME	441133.992	3761152.907	202.92

\*\* End of LINE VOLUME Source ID = SLINE42

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE43

\*\* DESCRSRC PA 3 Driveway - Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.96E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440943.428, 3761267.210, 204.11, 3.66, 2.33

\*\* 440943.697, 3761234.532, 204.08, 3.66, 2.33

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LOCATION L0043125      VOLUME  440943.449 3761264.710 204.09
LOCATION L0043126      VOLUME  440943.490 3761259.710 204.08
LOCATION L0043127      VOLUME  440943.531 3761254.710 204.07
LOCATION L0043128      VOLUME  440943.572 3761249.711 204.06
LOCATION L0043129      VOLUME  440943.613 3761244.711 204.07
LOCATION L0043130      VOLUME  440943.655 3761239.711 204.10
LOCATION L0043131      VOLUME  440943.696 3761234.711 204.13
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\*\* End of LINE VOLUME Source ID = SLINE43

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE44

\*\* DESCRSRC PA 3 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.02E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440782.168, 3761145.495, 202.04, 3.66, 2.33

\*\* 440813.786, 3761145.259, 202.21, 3.66, 2.33

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LOCATION L0043132      VOLUME  440784.668 3761145.476 201.87
LOCATION L0043133      VOLUME  440789.668 3761145.439 201.93
LOCATION L0043134      VOLUME  440794.668 3761145.402 201.99
LOCATION L0043135      VOLUME  440799.667 3761145.364 202.04
LOCATION L0043136      VOLUME  440804.667 3761145.327 202.10
LOCATION L0043137      VOLUME  440809.667 3761145.289 202.16
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\*\* End of LINE VOLUME Source ID = SLINE44

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE45

\*\* DESCRSRC PA 4 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

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\*\* Configuration = Adjacent  
\*\* Emission Rate = 2.58E-07  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 440782.053, 3760845.530, 199.47, 3.66, 2.33  
\*\* 440820.788, 3760845.246, 199.74, 3.66, 2.33

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LOCATION L0043138	VOLUME	440784.553	3760845.511	199.50
LOCATION L0043139	VOLUME	440789.553	3760845.475	199.53
LOCATION L0043140	VOLUME	440794.553	3760845.438	199.56
LOCATION L0043141	VOLUME	440799.553	3760845.402	199.60
LOCATION L0043142	VOLUME	440804.553	3760845.365	199.63
LOCATION L0043143	VOLUME	440809.552	3760845.329	199.65
LOCATION L0043144	VOLUME	440814.552	3760845.292	199.68
LOCATION L0043145	VOLUME	440819.552	3760845.255	199.71

\*\* End of LINE VOLUME Source ID = SLINE45

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE46  
\*\* DESCRSRC On-site Circulation - Bldgs 4-8 and Bldg 2

\*\* PREFIX  
\*\* Length of Side = 5.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 0.0000107  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89

\*\* Nodes = 2  
\*\* 441210.794, 3761143.089, 203.44, 3.66, 2.33  
\*\* 441990.105, 3761141.604, 204.38, 3.66, 2.33

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LOCATION L0043146	VOLUME	441213.294	3761143.084	203.43
LOCATION L0043147	VOLUME	441218.294	3761143.074	203.45
LOCATION L0043148	VOLUME	441223.294	3761143.065	203.47
LOCATION L0043149	VOLUME	441228.294	3761143.055	203.49
LOCATION L0043150	VOLUME	441233.294	3761143.046	203.51
LOCATION L0043151	VOLUME	441238.294	3761143.036	203.52
LOCATION L0043152	VOLUME	441243.294	3761143.027	203.52
LOCATION L0043153	VOLUME	441248.294	3761143.017	203.52
LOCATION L0043154	VOLUME	441253.294	3761143.008	203.52
LOCATION L0043155	VOLUME	441258.294	3761142.998	203.52
LOCATION L0043156	VOLUME	441263.294	3761142.989	203.52
LOCATION L0043157	VOLUME	441268.294	3761142.979	203.52
LOCATION L0043158	VOLUME	441273.294	3761142.970	203.53
LOCATION L0043159	VOLUME	441278.294	3761142.960	203.54
LOCATION L0043160	VOLUME	441283.294	3761142.950	203.54
LOCATION L0043161	VOLUME	441288.294	3761142.941	203.55
LOCATION L0043162	VOLUME	441293.294	3761142.931	203.56

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LOCATION L0043163	VOLUME	441298.294	3761142.922	203.56
LOCATION L0043164	VOLUME	441303.294	3761142.912	203.57
LOCATION L0043165	VOLUME	441308.294	3761142.903	203.58
LOCATION L0043166	VOLUME	441313.294	3761142.893	203.59
LOCATION L0043167	VOLUME	441318.294	3761142.884	203.59
LOCATION L0043168	VOLUME	441323.294	3761142.874	203.59
LOCATION L0043169	VOLUME	441328.293	3761142.865	203.59
LOCATION L0043170	VOLUME	441333.293	3761142.855	203.60
LOCATION L0043171	VOLUME	441338.293	3761142.846	203.60
LOCATION L0043172	VOLUME	441343.293	3761142.836	203.61
LOCATION L0043173	VOLUME	441348.293	3761142.827	203.62
LOCATION L0043174	VOLUME	441353.293	3761142.817	203.63
LOCATION L0043175	VOLUME	441358.293	3761142.808	203.64
LOCATION L0043176	VOLUME	441363.293	3761142.798	203.65
LOCATION L0043177	VOLUME	441368.293	3761142.789	203.65
LOCATION L0043178	VOLUME	441373.293	3761142.779	203.65
LOCATION L0043179	VOLUME	441378.293	3761142.769	203.65
LOCATION L0043180	VOLUME	441383.293	3761142.760	203.66
LOCATION L0043181	VOLUME	441388.293	3761142.750	203.66
LOCATION L0043182	VOLUME	441393.293	3761142.741	203.65
LOCATION L0043183	VOLUME	441398.293	3761142.731	203.63
LOCATION L0043184	VOLUME	441403.293	3761142.722	203.62
LOCATION L0043185	VOLUME	441408.293	3761142.712	203.60
LOCATION L0043186	VOLUME	441413.293	3761142.703	203.59
LOCATION L0043187	VOLUME	441418.293	3761142.693	203.58
LOCATION L0043188	VOLUME	441423.293	3761142.684	203.59
LOCATION L0043189	VOLUME	441428.293	3761142.674	203.59
LOCATION L0043190	VOLUME	441433.293	3761142.665	203.59
LOCATION L0043191	VOLUME	441438.293	3761142.655	203.60
LOCATION L0043192	VOLUME	441443.293	3761142.646	203.60
LOCATION L0043193	VOLUME	441448.293	3761142.636	203.60
LOCATION L0043194	VOLUME	441453.293	3761142.627	203.61
LOCATION L0043195	VOLUME	441458.293	3761142.617	203.61
LOCATION L0043196	VOLUME	441463.293	3761142.608	203.62
LOCATION L0043197	VOLUME	441468.293	3761142.598	203.62
LOCATION L0043198	VOLUME	441473.293	3761142.589	203.62
LOCATION L0043199	VOLUME	441478.293	3761142.579	203.63
LOCATION L0043200	VOLUME	441483.293	3761142.569	203.63
LOCATION L0043201	VOLUME	441488.293	3761142.560	203.63
LOCATION L0043202	VOLUME	441493.293	3761142.550	203.64
LOCATION L0043203	VOLUME	441498.293	3761142.541	203.64
LOCATION L0043204	VOLUME	441503.293	3761142.531	203.65
LOCATION L0043205	VOLUME	441508.293	3761142.522	203.65
LOCATION L0043206	VOLUME	441513.293	3761142.512	203.65
LOCATION L0043207	VOLUME	441518.293	3761142.503	203.66
LOCATION L0043208	VOLUME	441523.293	3761142.493	203.68
LOCATION L0043209	VOLUME	441528.293	3761142.484	203.69
LOCATION L0043210	VOLUME	441533.293	3761142.474	203.71

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LOCATION L0043211	VOLUME	441538.293	3761142.465	203.72
LOCATION L0043212	VOLUME	441543.293	3761142.455	203.74
LOCATION L0043213	VOLUME	441548.293	3761142.446	203.77
LOCATION L0043214	VOLUME	441553.293	3761142.436	203.81
LOCATION L0043215	VOLUME	441558.293	3761142.427	203.85
LOCATION L0043216	VOLUME	441563.293	3761142.417	203.89
LOCATION L0043217	VOLUME	441568.293	3761142.408	203.92
LOCATION L0043218	VOLUME	441573.293	3761142.398	203.97
LOCATION L0043219	VOLUME	441578.293	3761142.388	204.02
LOCATION L0043220	VOLUME	441583.293	3761142.379	204.07
LOCATION L0043221	VOLUME	441588.293	3761142.369	204.12
LOCATION L0043222	VOLUME	441593.293	3761142.360	204.18
LOCATION L0043223	VOLUME	441598.293	3761142.350	204.24
LOCATION L0043224	VOLUME	441603.293	3761142.341	204.30
LOCATION L0043225	VOLUME	441608.293	3761142.331	204.37
LOCATION L0043226	VOLUME	441613.293	3761142.322	204.43
LOCATION L0043227	VOLUME	441618.293	3761142.312	204.50
LOCATION L0043228	VOLUME	441623.293	3761142.303	204.50
LOCATION L0043229	VOLUME	441628.293	3761142.293	204.46
LOCATION L0043230	VOLUME	441633.293	3761142.284	204.41
LOCATION L0043231	VOLUME	441638.293	3761142.274	204.37
LOCATION L0043232	VOLUME	441643.293	3761142.265	204.32
LOCATION L0043233	VOLUME	441648.293	3761142.255	204.27
LOCATION L0043234	VOLUME	441653.293	3761142.246	204.21
LOCATION L0043235	VOLUME	441658.293	3761142.236	204.16
LOCATION L0043236	VOLUME	441663.293	3761142.227	204.10
LOCATION L0043237	VOLUME	441668.293	3761142.217	204.04
LOCATION L0043238	VOLUME	441673.293	3761142.207	203.98
LOCATION L0043239	VOLUME	441678.293	3761142.198	203.93
LOCATION L0043240	VOLUME	441683.293	3761142.188	203.87
LOCATION L0043241	VOLUME	441688.293	3761142.179	203.81
LOCATION L0043242	VOLUME	441693.293	3761142.169	203.75
LOCATION L0043243	VOLUME	441698.293	3761142.160	203.70
LOCATION L0043244	VOLUME	441703.293	3761142.150	203.75
LOCATION L0043245	VOLUME	441708.293	3761142.141	203.80
LOCATION L0043246	VOLUME	441713.293	3761142.131	203.84
LOCATION L0043247	VOLUME	441718.293	3761142.122	203.89
LOCATION L0043248	VOLUME	441723.293	3761142.112	203.93
LOCATION L0043249	VOLUME	441728.293	3761142.103	204.01
LOCATION L0043250	VOLUME	441733.293	3761142.093	204.09
LOCATION L0043251	VOLUME	441738.293	3761142.084	204.17
LOCATION L0043252	VOLUME	441743.293	3761142.074	204.25
LOCATION L0043253	VOLUME	441748.293	3761142.065	204.33
LOCATION L0043254	VOLUME	441753.293	3761142.055	204.36
LOCATION L0043255	VOLUME	441758.293	3761142.046	204.39
LOCATION L0043256	VOLUME	441763.293	3761142.036	204.42
LOCATION L0043257	VOLUME	441768.293	3761142.026	204.45
LOCATION L0043258	VOLUME	441773.293	3761142.017	204.48

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LOCATION L0043259	VOLUME	441778.293	3761142.007	204.50
LOCATION L0043260	VOLUME	441783.293	3761141.998	204.51
LOCATION L0043261	VOLUME	441788.293	3761141.988	204.53
LOCATION L0043262	VOLUME	441793.293	3761141.979	204.54
LOCATION L0043263	VOLUME	441798.293	3761141.969	204.55
LOCATION L0043264	VOLUME	441803.293	3761141.960	204.53
LOCATION L0043265	VOLUME	441808.293	3761141.950	204.48
LOCATION L0043266	VOLUME	441813.293	3761141.941	204.43
LOCATION L0043267	VOLUME	441818.293	3761141.931	204.39
LOCATION L0043268	VOLUME	441823.293	3761141.922	204.34
LOCATION L0043269	VOLUME	441828.293	3761141.912	204.28
LOCATION L0043270	VOLUME	441833.293	3761141.903	204.21
LOCATION L0043271	VOLUME	441838.293	3761141.893	204.14
LOCATION L0043272	VOLUME	441843.293	3761141.884	204.07
LOCATION L0043273	VOLUME	441848.293	3761141.874	204.00
LOCATION L0043274	VOLUME	441853.293	3761141.865	203.94
LOCATION L0043275	VOLUME	441858.293	3761141.855	203.90
LOCATION L0043276	VOLUME	441863.293	3761141.846	203.85
LOCATION L0043277	VOLUME	441868.293	3761141.836	203.81
LOCATION L0043278	VOLUME	441873.293	3761141.826	203.77
LOCATION L0043279	VOLUME	441878.292	3761141.817	203.75
LOCATION L0043280	VOLUME	441883.292	3761141.807	203.82
LOCATION L0043281	VOLUME	441888.292	3761141.798	203.90
LOCATION L0043282	VOLUME	441893.292	3761141.788	203.97
LOCATION L0043283	VOLUME	441898.292	3761141.779	204.04
LOCATION L0043284	VOLUME	441903.292	3761141.769	204.12
LOCATION L0043285	VOLUME	441908.292	3761141.760	204.23
LOCATION L0043286	VOLUME	441913.292	3761141.750	204.34
LOCATION L0043287	VOLUME	441918.292	3761141.741	204.45
LOCATION L0043288	VOLUME	441923.292	3761141.731	204.56
LOCATION L0043289	VOLUME	441928.292	3761141.722	204.67
LOCATION L0043290	VOLUME	441933.292	3761141.712	204.68
LOCATION L0043291	VOLUME	441938.292	3761141.703	204.69
LOCATION L0043292	VOLUME	441943.292	3761141.693	204.70
LOCATION L0043293	VOLUME	441948.292	3761141.684	204.71
LOCATION L0043294	VOLUME	441953.292	3761141.674	204.72
LOCATION L0043295	VOLUME	441958.292	3761141.665	204.66
LOCATION L0043296	VOLUME	441963.292	3761141.655	204.59
LOCATION L0043297	VOLUME	441968.292	3761141.645	204.51
LOCATION L0043298	VOLUME	441973.292	3761141.636	204.44
LOCATION L0043299	VOLUME	441978.292	3761141.626	204.36
LOCATION L0043300	VOLUME	441983.292	3761141.617	204.34
LOCATION L0043301	VOLUME	441988.292	3761141.607	204.34

\*\* End of LINE VOLUME Source ID = SLINE46

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE47

\*\* DESCRSRC On-site Circulation - Bldg 1 WEST

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** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.94E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 441236.465, 3761139.362, 203.51, 3.66, 2.33
** 441232.048, 3760579.760, 200.12, 3.66, 2.33
** 441234.134, 3760545.343, 199.82, 3.66, 2.33
** 441245.606, 3760520.313, 198.28, 3.66, 2.33
** 441268.551, 3760504.669, 198.22, 3.66, 2.33
** 441371.695, 3760501.803, 198.54, 3.66, 2.33

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LOCATION L0043302      VOLUME  441236.445 3761136.862 203.48
LOCATION L0043303      VOLUME  441236.406 3761131.862 203.45
LOCATION L0043304      VOLUME  441236.367 3761126.862 203.42
LOCATION L0043305      VOLUME  441236.327 3761121.862 203.39
LOCATION L0043306      VOLUME  441236.288 3761116.862 203.36
LOCATION L0043307      VOLUME  441236.248 3761111.862 203.33
LOCATION L0043308      VOLUME  441236.209 3761106.863 203.30
LOCATION L0043309      VOLUME  441236.169 3761101.863 203.27
LOCATION L0043310      VOLUME  441236.130 3761096.863 203.24
LOCATION L0043311      VOLUME  441236.090 3761091.863 203.21
LOCATION L0043312      VOLUME  441236.051 3761086.863 203.18
LOCATION L0043313      VOLUME  441236.011 3761081.863 203.15
LOCATION L0043314      VOLUME  441235.972 3761076.864 203.13
LOCATION L0043315      VOLUME  441235.932 3761071.864 203.10
LOCATION L0043316      VOLUME  441235.893 3761066.864 203.07
LOCATION L0043317      VOLUME  441235.853 3761061.864 203.04
LOCATION L0043318      VOLUME  441235.814 3761056.864 203.01
LOCATION L0043319      VOLUME  441235.775 3761051.864 202.97
LOCATION L0043320      VOLUME  441235.735 3761046.865 202.94
LOCATION L0043321      VOLUME  441235.696 3761041.865 202.91
LOCATION L0043322      VOLUME  441235.656 3761036.865 202.88
LOCATION L0043323      VOLUME  441235.617 3761031.865 202.84
LOCATION L0043324      VOLUME  441235.577 3761026.865 202.81
LOCATION L0043325      VOLUME  441235.538 3761021.865 202.78
LOCATION L0043326      VOLUME  441235.498 3761016.865 202.75
LOCATION L0043327      VOLUME  441235.459 3761011.866 202.72
LOCATION L0043328      VOLUME  441235.419 3761006.866 202.68
LOCATION L0043329      VOLUME  441235.380 3761001.866 202.65
LOCATION L0043330      VOLUME  441235.340 3760996.866 202.62
LOCATION L0043331      VOLUME  441235.301 3760991.866 202.59
LOCATION L0043332      VOLUME  441235.261 3760986.866 202.56
LOCATION L0043333      VOLUME  441235.222 3760981.867 202.52
LOCATION L0043334      VOLUME  441235.183 3760976.867 202.49
LOCATION L0043335      VOLUME  441235.143 3760971.867 202.46

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LOCATION L0043336	VOLUME	441235.104	3760966.867	202.43
LOCATION L0043337	VOLUME	441235.064	3760961.867	202.39
LOCATION L0043338	VOLUME	441235.025	3760956.867	202.36
LOCATION L0043339	VOLUME	441234.985	3760951.867	202.33
LOCATION L0043340	VOLUME	441234.946	3760946.868	202.30
LOCATION L0043341	VOLUME	441234.906	3760941.868	202.26
LOCATION L0043342	VOLUME	441234.867	3760936.868	202.23
LOCATION L0043343	VOLUME	441234.827	3760931.868	202.20
LOCATION L0043344	VOLUME	441234.788	3760926.868	202.17
LOCATION L0043345	VOLUME	441234.748	3760921.868	202.14
LOCATION L0043346	VOLUME	441234.709	3760916.869	202.11
LOCATION L0043347	VOLUME	441234.670	3760911.869	202.08
LOCATION L0043348	VOLUME	441234.630	3760906.869	202.05
LOCATION L0043349	VOLUME	441234.591	3760901.869	202.02
LOCATION L0043350	VOLUME	441234.551	3760896.869	201.99
LOCATION L0043351	VOLUME	441234.512	3760891.869	201.96
LOCATION L0043352	VOLUME	441234.472	3760886.870	201.93
LOCATION L0043353	VOLUME	441234.433	3760881.870	201.91
LOCATION L0043354	VOLUME	441234.393	3760876.870	201.88
LOCATION L0043355	VOLUME	441234.354	3760871.870	201.85
LOCATION L0043356	VOLUME	441234.314	3760866.870	201.82
LOCATION L0043357	VOLUME	441234.275	3760861.870	201.79
LOCATION L0043358	VOLUME	441234.235	3760856.870	201.76
LOCATION L0043359	VOLUME	441234.196	3760851.871	201.73
LOCATION L0043360	VOLUME	441234.156	3760846.871	201.70
LOCATION L0043361	VOLUME	441234.117	3760841.871	201.67
LOCATION L0043362	VOLUME	441234.078	3760836.871	201.64
LOCATION L0043363	VOLUME	441234.038	3760831.871	201.60
LOCATION L0043364	VOLUME	441233.999	3760826.871	201.57
LOCATION L0043365	VOLUME	441233.959	3760821.872	201.53
LOCATION L0043366	VOLUME	441233.920	3760816.872	201.50
LOCATION L0043367	VOLUME	441233.880	3760811.872	201.47
LOCATION L0043368	VOLUME	441233.841	3760806.872	201.44
LOCATION L0043369	VOLUME	441233.801	3760801.872	201.41
LOCATION L0043370	VOLUME	441233.762	3760796.872	201.38
LOCATION L0043371	VOLUME	441233.722	3760791.872	201.35
LOCATION L0043372	VOLUME	441233.683	3760786.873	201.33
LOCATION L0043373	VOLUME	441233.643	3760781.873	201.30
LOCATION L0043374	VOLUME	441233.604	3760776.873	201.27
LOCATION L0043375	VOLUME	441233.565	3760771.873	201.24
LOCATION L0043376	VOLUME	441233.525	3760766.873	201.20
LOCATION L0043377	VOLUME	441233.486	3760761.873	201.17
LOCATION L0043378	VOLUME	441233.446	3760756.874	201.14
LOCATION L0043379	VOLUME	441233.407	3760751.874	201.11
LOCATION L0043380	VOLUME	441233.367	3760746.874	201.08
LOCATION L0043381	VOLUME	441233.328	3760741.874	201.05
LOCATION L0043382	VOLUME	441233.288	3760736.874	201.01
LOCATION L0043383	VOLUME	441233.249	3760731.874	200.98



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LOCATION L0043384	VOLUME	441233.209	3760726.874	200.95
LOCATION L0043385	VOLUME	441233.170	3760721.875	200.91
LOCATION L0043386	VOLUME	441233.130	3760716.875	200.88
LOCATION L0043387	VOLUME	441233.091	3760711.875	200.85
LOCATION L0043388	VOLUME	441233.051	3760706.875	200.82
LOCATION L0043389	VOLUME	441233.012	3760701.875	200.79
LOCATION L0043390	VOLUME	441232.973	3760696.875	200.76
LOCATION L0043391	VOLUME	441232.933	3760691.876	200.73
LOCATION L0043392	VOLUME	441232.894	3760686.876	200.70
LOCATION L0043393	VOLUME	441232.854	3760681.876	200.67
LOCATION L0043394	VOLUME	441232.815	3760676.876	200.64
LOCATION L0043395	VOLUME	441232.775	3760671.876	200.61
LOCATION L0043396	VOLUME	441232.736	3760666.876	200.58
LOCATION L0043397	VOLUME	441232.696	3760661.877	200.55
LOCATION L0043398	VOLUME	441232.657	3760656.877	200.52
LOCATION L0043399	VOLUME	441232.617	3760651.877	200.49
LOCATION L0043400	VOLUME	441232.578	3760646.877	200.46
LOCATION L0043401	VOLUME	441232.538	3760641.877	200.43
LOCATION L0043402	VOLUME	441232.499	3760636.877	200.40
LOCATION L0043403	VOLUME	441232.460	3760631.877	200.37
LOCATION L0043404	VOLUME	441232.420	3760626.878	200.34
LOCATION L0043405	VOLUME	441232.381	3760621.878	200.31
LOCATION L0043406	VOLUME	441232.341	3760616.878	200.29
LOCATION L0043407	VOLUME	441232.302	3760611.878	200.26
LOCATION L0043408	VOLUME	441232.262	3760606.878	200.23
LOCATION L0043409	VOLUME	441232.223	3760601.878	200.21
LOCATION L0043410	VOLUME	441232.183	3760596.879	200.18
LOCATION L0043411	VOLUME	441232.144	3760591.879	200.16
LOCATION L0043412	VOLUME	441232.104	3760586.879	200.14
LOCATION L0043413	VOLUME	441232.065	3760581.879	200.12
LOCATION L0043414	VOLUME	441232.222	3760576.884	200.10
LOCATION L0043415	VOLUME	441232.525	3760571.894	200.08
LOCATION L0043416	VOLUME	441232.827	3760566.903	200.05
LOCATION L0043417	VOLUME	441233.130	3760561.912	200.03
LOCATION L0043418	VOLUME	441233.432	3760556.921	200.00
LOCATION L0043419	VOLUME	441233.735	3760551.930	199.97
LOCATION L0043420	VOLUME	441234.037	3760546.939	199.94
LOCATION L0043421	VOLUME	441235.551	3760542.251	199.91
LOCATION L0043422	VOLUME	441237.634	3760537.706	199.89
LOCATION L0043423	VOLUME	441239.717	3760533.161	199.69
LOCATION L0043424	VOLUME	441241.801	3760528.616	199.43
LOCATION L0043425	VOLUME	441243.884	3760524.070	199.17
LOCATION L0043426	VOLUME	441246.322	3760519.824	198.93
LOCATION L0043427	VOLUME	441250.453	3760517.008	198.77
LOCATION L0043428	VOLUME	441254.585	3760514.191	198.60
LOCATION L0043429	VOLUME	441258.716	3760511.374	198.44
LOCATION L0043430	VOLUME	441262.847	3760508.558	198.28
LOCATION L0043431	VOLUME	441266.978	3760505.741	198.12

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LOCATION	VOLUME	441271.646	3760504.583	198.14
L0043432	VOLUME	441271.646	3760504.583	198.14
L0043433	VOLUME	441276.644	3760504.444	198.14
L0043434	VOLUME	441281.642	3760504.305	198.15
L0043435	VOLUME	441286.640	3760504.166	198.17
L0043436	VOLUME	441291.638	3760504.027	198.19
L0043437	VOLUME	441296.636	3760503.889	198.21
L0043438	VOLUME	441301.634	3760503.750	198.23
L0043439	VOLUME	441306.633	3760503.611	198.26
L0043440	VOLUME	441311.631	3760503.472	198.28
L0043441	VOLUME	441316.629	3760503.333	198.30
L0043442	VOLUME	441321.627	3760503.194	198.31
L0043443	VOLUME	441326.625	3760503.055	198.33
L0043444	VOLUME	441331.623	3760502.917	198.35
L0043445	VOLUME	441336.621	3760502.778	198.37
L0043446	VOLUME	441341.619	3760502.639	198.39
L0043447	VOLUME	441346.617	3760502.500	198.41
L0043448	VOLUME	441351.615	3760502.361	198.43
L0043449	VOLUME	441356.613	3760502.222	198.45
L0043450	VOLUME	441361.611	3760502.084	198.47
L0043451	VOLUME	441366.609	3760501.945	198.49
L0043452	VOLUME	441371.607	3760501.806	198.51

\*\* End of LINE VOLUME Source ID = SLINE47

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE48

\*\* DESCRSRC On-Site Circulation - Bldg 1 EAST

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.21E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 11

\*\* 441373.370, 3760501.936, 198.55, 3.66, 2.33

\*\* 441413.187, 3760501.261, 198.75, 3.66, 2.33

\*\* 441437.929, 3760501.261, 198.79, 3.66, 2.33

\*\* 441457.991, 3760501.261, 198.99, 3.66, 2.33

\*\* 441474.374, 3760501.595, 199.28, 3.66, 2.33

\*\* 441497.445, 3760501.261, 199.62, 3.66, 2.33

\*\* 441506.807, 3760501.261, 199.47, 3.66, 2.33

\*\* 441515.285, 3760503.229, 199.42, 3.66, 2.33

\*\* 441522.931, 3760510.375, 199.48, 3.66, 2.33

\*\* 441529.101, 3760523.517, 199.58, 3.66, 2.33

\*\* 441531.237, 3761139.936, 203.72, 3.66, 2.33

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LOCATION L0043453	VOLUME	441375.869	3760501.893	198.53
LOCATION L0043454	VOLUME	441380.869	3760501.809	198.55
LOCATION L0043455	VOLUME	441385.868	3760501.724	198.57

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LOCATION L0043456	VOLUME	441390.867	3760501.639	198.61
LOCATION L0043457	VOLUME	441395.867	3760501.554	198.66
LOCATION L0043458	VOLUME	441400.866	3760501.470	198.70
LOCATION L0043459	VOLUME	441405.865	3760501.385	198.75
LOCATION L0043460	VOLUME	441410.864	3760501.300	198.79
LOCATION L0043461	VOLUME	441415.864	3760501.261	198.80
LOCATION L0043462	VOLUME	441420.864	3760501.261	198.81
LOCATION L0043463	VOLUME	441425.864	3760501.261	198.82
LOCATION L0043464	VOLUME	441430.864	3760501.261	198.83
LOCATION L0043465	VOLUME	441435.864	3760501.261	198.83
LOCATION L0043466	VOLUME	441440.864	3760501.261	198.86
LOCATION L0043467	VOLUME	441445.864	3760501.261	198.89
LOCATION L0043468	VOLUME	441450.864	3760501.261	198.92
LOCATION L0043469	VOLUME	441455.864	3760501.261	198.95
LOCATION L0043470	VOLUME	441460.863	3760501.319	198.98
LOCATION L0043471	VOLUME	441465.862	3760501.421	199.07
LOCATION L0043472	VOLUME	441470.861	3760501.523	199.21
LOCATION L0043473	VOLUME	441475.861	3760501.574	199.35
LOCATION L0043474	VOLUME	441480.860	3760501.501	199.49
LOCATION L0043475	VOLUME	441485.859	3760501.429	199.63
LOCATION L0043476	VOLUME	441490.859	3760501.356	199.68
LOCATION L0043477	VOLUME	441495.858	3760501.284	199.64
LOCATION L0043478	VOLUME	441500.858	3760501.261	199.59
LOCATION L0043479	VOLUME	441505.858	3760501.261	199.54
LOCATION L0043480	VOLUME	441510.753	3760502.177	199.48
LOCATION L0043481	VOLUME	441515.539	3760503.466	199.44
LOCATION L0043482	VOLUME	441519.192	3760506.880	199.46
LOCATION L0043483	VOLUME	441522.845	3760510.294	199.48
LOCATION L0043484	VOLUME	441525.006	3760514.794	199.50
LOCATION L0043485	VOLUME	441527.131	3760519.320	199.52
LOCATION L0043486	VOLUME	441529.103	3760523.881	199.55
LOCATION L0043487	VOLUME	441529.120	3760528.881	199.55
LOCATION L0043488	VOLUME	441529.137	3760533.881	199.56
LOCATION L0043489	VOLUME	441529.155	3760538.880	199.61
LOCATION L0043490	VOLUME	441529.172	3760543.880	199.68
LOCATION L0043491	VOLUME	441529.189	3760548.880	199.74
LOCATION L0043492	VOLUME	441529.207	3760553.880	199.80
LOCATION L0043493	VOLUME	441529.224	3760558.880	199.86
LOCATION L0043494	VOLUME	441529.241	3760563.880	199.93
LOCATION L0043495	VOLUME	441529.259	3760568.880	199.95
LOCATION L0043496	VOLUME	441529.276	3760573.880	199.94
LOCATION L0043497	VOLUME	441529.293	3760578.880	199.94
LOCATION L0043498	VOLUME	441529.311	3760583.880	199.93
LOCATION L0043499	VOLUME	441529.328	3760588.880	199.93
LOCATION L0043500	VOLUME	441529.345	3760593.880	199.93
LOCATION L0043501	VOLUME	441529.362	3760598.880	199.94
LOCATION L0043502	VOLUME	441529.380	3760603.880	199.98
LOCATION L0043503	VOLUME	441529.397	3760608.880	200.02

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LOCATION	L0043504	VOLUME	441529.414	3760613.880	200.06
LOCATION	L0043505	VOLUME	441529.432	3760618.880	200.10
LOCATION	L0043506	VOLUME	441529.449	3760623.880	200.14
LOCATION	L0043507	VOLUME	441529.466	3760628.880	200.19
LOCATION	L0043508	VOLUME	441529.484	3760633.880	200.26
LOCATION	L0043509	VOLUME	441529.501	3760638.880	200.33
LOCATION	L0043510	VOLUME	441529.518	3760643.880	200.40
LOCATION	L0043511	VOLUME	441529.536	3760648.880	200.47
LOCATION	L0043512	VOLUME	441529.553	3760653.880	200.54
LOCATION	L0043513	VOLUME	441529.570	3760658.880	200.60
LOCATION	L0043514	VOLUME	441529.588	3760663.880	200.61
LOCATION	L0043515	VOLUME	441529.605	3760668.880	200.62
LOCATION	L0043516	VOLUME	441529.622	3760673.880	200.64
LOCATION	L0043517	VOLUME	441529.640	3760678.880	200.65
LOCATION	L0043518	VOLUME	441529.657	3760683.880	200.66
LOCATION	L0043519	VOLUME	441529.674	3760688.880	200.68
LOCATION	L0043520	VOLUME	441529.692	3760693.880	200.72
LOCATION	L0043521	VOLUME	441529.709	3760698.880	200.76
LOCATION	L0043522	VOLUME	441529.726	3760703.880	200.79
LOCATION	L0043523	VOLUME	441529.744	3760708.879	200.83
LOCATION	L0043524	VOLUME	441529.761	3760713.879	200.87
LOCATION	L0043525	VOLUME	441529.778	3760718.879	200.91
LOCATION	L0043526	VOLUME	441529.796	3760723.879	200.93
LOCATION	L0043527	VOLUME	441529.813	3760728.879	200.95
LOCATION	L0043528	VOLUME	441529.830	3760733.879	200.96
LOCATION	L0043529	VOLUME	441529.848	3760738.879	200.98
LOCATION	L0043530	VOLUME	441529.865	3760743.879	200.99
LOCATION	L0043531	VOLUME	441529.882	3760748.879	201.01
LOCATION	L0043532	VOLUME	441529.900	3760753.879	201.04
LOCATION	L0043533	VOLUME	441529.917	3760758.879	201.08
LOCATION	L0043534	VOLUME	441529.934	3760763.879	201.13
LOCATION	L0043535	VOLUME	441529.952	3760768.879	201.17
LOCATION	L0043536	VOLUME	441529.969	3760773.879	201.21
LOCATION	L0043537	VOLUME	441529.986	3760778.879	201.25
LOCATION	L0043538	VOLUME	441530.004	3760783.879	201.31
LOCATION	L0043539	VOLUME	441530.021	3760788.879	201.39
LOCATION	L0043540	VOLUME	441530.038	3760793.879	201.47
LOCATION	L0043541	VOLUME	441530.055	3760798.879	201.56
LOCATION	L0043542	VOLUME	441530.073	3760803.879	201.64
LOCATION	L0043543	VOLUME	441530.090	3760808.879	201.72
LOCATION	L0043544	VOLUME	441530.107	3760813.879	201.77
LOCATION	L0043545	VOLUME	441530.125	3760818.879	201.78
LOCATION	L0043546	VOLUME	441530.142	3760823.879	201.78
LOCATION	L0043547	VOLUME	441530.159	3760828.879	201.79
LOCATION	L0043548	VOLUME	441530.177	3760833.879	201.79
LOCATION	L0043549	VOLUME	441530.194	3760838.879	201.79
LOCATION	L0043550	VOLUME	441530.211	3760843.879	201.81
LOCATION	L0043551	VOLUME	441530.229	3760848.879	201.88

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LOCATION L0043552	VOLUME	441530.246	3760853.879	201.95
LOCATION L0043553	VOLUME	441530.263	3760858.879	202.02
LOCATION L0043554	VOLUME	441530.281	3760863.879	202.08
LOCATION L0043555	VOLUME	441530.298	3760868.879	202.15
LOCATION L0043556	VOLUME	441530.315	3760873.878	202.22
LOCATION L0043557	VOLUME	441530.333	3760878.878	202.21
LOCATION L0043558	VOLUME	441530.350	3760883.878	202.21
LOCATION L0043559	VOLUME	441530.367	3760888.878	202.21
LOCATION L0043560	VOLUME	441530.385	3760893.878	202.21
LOCATION L0043561	VOLUME	441530.402	3760898.878	202.21
LOCATION L0043562	VOLUME	441530.419	3760903.878	202.20
LOCATION L0043563	VOLUME	441530.437	3760908.878	202.22
LOCATION L0043564	VOLUME	441530.454	3760913.878	202.24
LOCATION L0043565	VOLUME	441530.471	3760918.878	202.25
LOCATION L0043566	VOLUME	441530.489	3760923.878	202.27
LOCATION L0043567	VOLUME	441530.506	3760928.878	202.29
LOCATION L0043568	VOLUME	441530.523	3760933.878	202.31
LOCATION L0043569	VOLUME	441530.541	3760938.878	202.33
LOCATION L0043570	VOLUME	441530.558	3760943.878	202.36
LOCATION L0043571	VOLUME	441530.575	3760948.878	202.39
LOCATION L0043572	VOLUME	441530.593	3760953.878	202.41
LOCATION L0043573	VOLUME	441530.610	3760958.878	202.44
LOCATION L0043574	VOLUME	441530.627	3760963.878	202.47
LOCATION L0043575	VOLUME	441530.645	3760968.878	202.50
LOCATION L0043576	VOLUME	441530.662	3760973.878	202.53
LOCATION L0043577	VOLUME	441530.679	3760978.878	202.56
LOCATION L0043578	VOLUME	441530.697	3760983.878	202.59
LOCATION L0043579	VOLUME	441530.714	3760988.878	202.61
LOCATION L0043580	VOLUME	441530.731	3760993.878	202.64
LOCATION L0043581	VOLUME	441530.748	3760998.878	202.67
LOCATION L0043582	VOLUME	441530.766	3761003.878	202.71
LOCATION L0043583	VOLUME	441530.783	3761008.878	202.74
LOCATION L0043584	VOLUME	441530.800	3761013.878	202.77
LOCATION L0043585	VOLUME	441530.818	3761018.878	202.81
LOCATION L0043586	VOLUME	441530.835	3761023.878	202.84
LOCATION L0043587	VOLUME	441530.852	3761028.878	202.87
LOCATION L0043588	VOLUME	441530.870	3761033.878	202.91
LOCATION L0043589	VOLUME	441530.887	3761038.877	202.94
LOCATION L0043590	VOLUME	441530.904	3761043.877	202.97
LOCATION L0043591	VOLUME	441530.922	3761048.877	203.01
LOCATION L0043592	VOLUME	441530.939	3761053.877	203.04
LOCATION L0043593	VOLUME	441530.956	3761058.877	203.08
LOCATION L0043594	VOLUME	441530.974	3761063.877	203.11
LOCATION L0043595	VOLUME	441530.991	3761068.877	203.14
LOCATION L0043596	VOLUME	441531.008	3761073.877	203.18
LOCATION L0043597	VOLUME	441531.026	3761078.877	203.21
LOCATION L0043598	VOLUME	441531.043	3761083.877	203.25
LOCATION L0043599	VOLUME	441531.060	3761088.877	203.28

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LOCATION L0043600	VOLUME	441531.078	3761093.877	203.32
LOCATION L0043601	VOLUME	441531.095	3761098.877	203.36
LOCATION L0043602	VOLUME	441531.112	3761103.877	203.40
LOCATION L0043603	VOLUME	441531.130	3761108.877	203.44
LOCATION L0043604	VOLUME	441531.147	3761113.877	203.48
LOCATION L0043605	VOLUME	441531.164	3761118.877	203.52
LOCATION L0043606	VOLUME	441531.182	3761123.877	203.56
LOCATION L0043607	VOLUME	441531.199	3761128.877	203.60
LOCATION L0043608	VOLUME	441531.216	3761133.877	203.63
LOCATION L0043609	VOLUME	441531.234	3761138.877	203.67

\*\* End of LINE VOLUME Source ID = SLINE48

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE49

\*\* DESCRSRC Idle - Building 4 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.01E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441256.979, 3761193.807, 203.77, 3.66, 1.40

\*\* 441317.884, 3761194.373, 203.83, 3.66, 1.40

\*\*

LOCATION L0043610	VOLUME	441258.479	3761193.821	203.87
LOCATION L0043611	VOLUME	441261.479	3761193.849	203.87
LOCATION L0043612	VOLUME	441264.479	3761193.877	203.88
LOCATION L0043613	VOLUME	441267.479	3761193.905	203.88
LOCATION L0043614	VOLUME	441270.479	3761193.933	203.88
LOCATION L0043615	VOLUME	441273.479	3761193.961	203.88
LOCATION L0043616	VOLUME	441276.479	3761193.989	203.88
LOCATION L0043617	VOLUME	441279.478	3761194.016	203.88
LOCATION L0043618	VOLUME	441282.478	3761194.044	203.88
LOCATION L0043619	VOLUME	441285.478	3761194.072	203.89
LOCATION L0043620	VOLUME	441288.478	3761194.100	203.89
LOCATION L0043621	VOLUME	441291.478	3761194.128	203.89
LOCATION L0043622	VOLUME	441294.478	3761194.156	203.89
LOCATION L0043623	VOLUME	441297.478	3761194.184	203.89
LOCATION L0043624	VOLUME	441300.477	3761194.212	203.89
LOCATION L0043625	VOLUME	441303.477	3761194.239	203.89
LOCATION L0043626	VOLUME	441306.477	3761194.267	203.89
LOCATION L0043627	VOLUME	441309.477	3761194.295	203.89
LOCATION L0043628	VOLUME	441312.477	3761194.323	203.89
LOCATION L0043629	VOLUME	441315.477	3761194.351	203.89

\*\* End of LINE VOLUME Source ID = SLINE49

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

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\*\* LINE VOLUME Source ID = SLINE50  
\*\* DESCRSRC Idle - Building 5 Loading Docks  
\*\* PREFIX  
\*\* Length of Side = 3.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 1.01E-15  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441416.126, 3761195.549, 203.84, 3.66, 1.40  
\*\* 441477.585, 3761195.215, 203.88, 3.66, 1.40

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LOCATION	VOLUME	441417.626	3761195.541	203.92
L0043630	VOLUME	441420.626	3761195.525	203.93
L0043631	VOLUME	441423.626	3761195.509	203.93
L0043632	VOLUME	441426.626	3761195.492	203.93
L0043633	VOLUME	441429.626	3761195.476	203.93
L0043634	VOLUME	441432.626	3761195.460	203.93
L0043635	VOLUME	441435.626	3761195.443	203.94
L0043636	VOLUME	441438.626	3761195.427	203.94
L0043637	VOLUME	441441.626	3761195.411	203.94
L0043638	VOLUME	441444.626	3761195.394	203.94
L0043639	VOLUME	441447.626	3761195.378	203.94
L0043640	VOLUME	441450.626	3761195.361	203.95
L0043641	VOLUME	441453.626	3761195.345	203.95
L0043642	VOLUME	441456.626	3761195.329	203.95
L0043643	VOLUME	441459.626	3761195.312	203.95
L0043644	VOLUME	441462.625	3761195.296	203.95
L0043645	VOLUME	441465.625	3761195.280	203.95
L0043646	VOLUME	441468.625	3761195.263	203.96
L0043647	VOLUME	441471.625	3761195.247	203.96
L0043648	VOLUME	441474.625	3761195.231	203.97

\*\* End of LINE VOLUME Source ID = SLINE50

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE51  
\*\* DESCRSRC Idle - Building 6 Loading Docks  
\*\* PREFIX  
\*\* Length of Side = 3.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 1.01E-15  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441552.795, 3761194.592, 204.12, 3.66, 1.40  
\*\* 441618.096, 3761194.927, 204.71, 3.66, 1.40

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LOCATION L0043650	VOLUME	441554.295	3761194.600	204.19
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LOCATION L0043651	VOLUME	441557.295	3761194.615	204.22
LOCATION L0043652	VOLUME	441560.295	3761194.631	204.25
LOCATION L0043653	VOLUME	441563.295	3761194.646	204.28
LOCATION L0043654	VOLUME	441566.295	3761194.661	204.31
LOCATION L0043655	VOLUME	441569.295	3761194.677	204.34
LOCATION L0043656	VOLUME	441572.295	3761194.692	204.36
LOCATION L0043657	VOLUME	441575.294	3761194.708	204.39
LOCATION L0043658	VOLUME	441578.294	3761194.723	204.42
LOCATION L0043659	VOLUME	441581.294	3761194.738	204.45
LOCATION L0043660	VOLUME	441584.294	3761194.754	204.47
LOCATION L0043661	VOLUME	441587.294	3761194.769	204.50
LOCATION L0043662	VOLUME	441590.294	3761194.784	204.53
LOCATION L0043663	VOLUME	441593.294	3761194.800	204.56
LOCATION L0043664	VOLUME	441596.294	3761194.815	204.59
LOCATION L0043665	VOLUME	441599.294	3761194.831	204.61
LOCATION L0043666	VOLUME	441602.294	3761194.846	204.64
LOCATION L0043667	VOLUME	441605.294	3761194.861	204.67
LOCATION L0043668	VOLUME	441608.294	3761194.877	204.70
LOCATION L0043669	VOLUME	441611.294	3761194.892	204.73
LOCATION L0043670	VOLUME	441614.294	3761194.908	204.76
LOCATION L0043671	VOLUME	441617.294	3761194.923	204.79

\*\* End of LINE VOLUME Source ID = SLINE51

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE52

\*\* DESCRSRC Idle - Building 7 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.28E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441706.691, 3761196.147, 204.68, 3.66, 1.40

\*\* 441772.731, 3761196.147, 204.68, 3.66, 1.40

\*\*

LOCATION L0043672	VOLUME	441708.191	3761196.147	204.76
LOCATION L0043673	VOLUME	441711.191	3761196.147	204.77
LOCATION L0043674	VOLUME	441714.191	3761196.147	204.77
LOCATION L0043675	VOLUME	441717.191	3761196.147	204.78
LOCATION L0043676	VOLUME	441720.191	3761196.147	204.79
LOCATION L0043677	VOLUME	441723.191	3761196.147	204.80
LOCATION L0043678	VOLUME	441726.191	3761196.147	204.79
LOCATION L0043679	VOLUME	441729.191	3761196.147	204.77
LOCATION L0043680	VOLUME	441732.191	3761196.147	204.75
LOCATION L0043681	VOLUME	441735.191	3761196.147	204.73
LOCATION L0043682	VOLUME	441738.191	3761196.147	204.71
LOCATION L0043683	VOLUME	441741.191	3761196.147	204.70



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LOCATION L0043684	VOLUME	441744.191	3761196.147	204.68
LOCATION L0043685	VOLUME	441747.191	3761196.147	204.66
LOCATION L0043686	VOLUME	441750.191	3761196.147	204.65
LOCATION L0043687	VOLUME	441753.191	3761196.147	204.67
LOCATION L0043688	VOLUME	441756.191	3761196.147	204.69
LOCATION L0043689	VOLUME	441759.191	3761196.147	204.71
LOCATION L0043690	VOLUME	441762.191	3761196.147	204.73
LOCATION L0043691	VOLUME	441765.191	3761196.147	204.74
LOCATION L0043692	VOLUME	441768.191	3761196.147	204.76
LOCATION L0043693	VOLUME	441771.191	3761196.147	204.78

\*\* End of LINE VOLUME Source ID = SLINE52

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE53

\*\* DESCRSRC Idle - Building 8 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.01E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441877.413, 3761193.808, 204.31, 3.66, 1.40

\*\* 441940.039, 3761194.143, 204.98, 3.66, 1.40

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LOCATION L0043694	VOLUME	441878.913	3761193.816	204.33
LOCATION L0043695	VOLUME	441881.913	3761193.833	204.36
LOCATION L0043696	VOLUME	441884.912	3761193.849	204.39
LOCATION L0043697	VOLUME	441887.912	3761193.865	204.42
LOCATION L0043698	VOLUME	441890.912	3761193.881	204.45
LOCATION L0043699	VOLUME	441893.912	3761193.897	204.48
LOCATION L0043700	VOLUME	441896.912	3761193.913	204.51
LOCATION L0043701	VOLUME	441899.912	3761193.929	204.54
LOCATION L0043702	VOLUME	441902.912	3761193.945	204.57
LOCATION L0043703	VOLUME	441905.912	3761193.961	204.62
LOCATION L0043704	VOLUME	441908.912	3761193.977	204.67
LOCATION L0043705	VOLUME	441911.912	3761193.993	204.72
LOCATION L0043706	VOLUME	441914.912	3761194.009	204.77
LOCATION L0043707	VOLUME	441917.912	3761194.025	204.82
LOCATION L0043708	VOLUME	441920.912	3761194.041	204.87
LOCATION L0043709	VOLUME	441923.912	3761194.057	204.92
LOCATION L0043710	VOLUME	441926.912	3761194.073	204.97
LOCATION L0043711	VOLUME	441929.912	3761194.089	205.02
LOCATION L0043712	VOLUME	441932.912	3761194.105	205.05
LOCATION L0043713	VOLUME	441935.912	3761194.121	205.08
LOCATION L0043714	VOLUME	441938.912	3761194.137	205.11

\*\* End of LINE VOLUME Source ID = SLINE53

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE54

\*\* DESCRSRC Idle - Building 2 Loading Docks - North

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.48E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441624.570, 3761087.775, 204.08, 3.66, 1.40

\*\* 441912.354, 3761085.999, 203.81, 3.66, 1.40

\*\*

LOCATION	L0043715	VOLUME	441626.070	3761087.766	204.05
LOCATION	L0043716	VOLUME	441629.070	3761087.748	204.04
LOCATION	L0043717	VOLUME	441632.070	3761087.729	204.02
LOCATION	L0043718	VOLUME	441635.070	3761087.711	204.00
LOCATION	L0043719	VOLUME	441638.070	3761087.692	203.98
LOCATION	L0043720	VOLUME	441641.070	3761087.674	203.96
LOCATION	L0043721	VOLUME	441644.070	3761087.655	203.94
LOCATION	L0043722	VOLUME	441647.070	3761087.637	203.92
LOCATION	L0043723	VOLUME	441650.070	3761087.618	203.90
LOCATION	L0043724	VOLUME	441653.070	3761087.600	203.89
LOCATION	L0043725	VOLUME	441656.070	3761087.581	203.87
LOCATION	L0043726	VOLUME	441659.070	3761087.563	203.85
LOCATION	L0043727	VOLUME	441662.070	3761087.544	203.84
LOCATION	L0043728	VOLUME	441665.070	3761087.525	203.82
LOCATION	L0043729	VOLUME	441668.070	3761087.507	203.80
LOCATION	L0043730	VOLUME	441671.070	3761087.488	203.78
LOCATION	L0043731	VOLUME	441674.070	3761087.470	203.74
LOCATION	L0043732	VOLUME	441677.069	3761087.451	203.69
LOCATION	L0043733	VOLUME	441680.069	3761087.433	203.64
LOCATION	L0043734	VOLUME	441683.069	3761087.414	203.59
LOCATION	L0043735	VOLUME	441686.069	3761087.396	203.54
LOCATION	L0043736	VOLUME	441689.069	3761087.377	203.49
LOCATION	L0043737	VOLUME	441692.069	3761087.359	203.44
LOCATION	L0043738	VOLUME	441695.069	3761087.340	203.39
LOCATION	L0043739	VOLUME	441698.069	3761087.322	203.36
LOCATION	L0043740	VOLUME	441701.069	3761087.303	203.38
LOCATION	L0043741	VOLUME	441704.069	3761087.285	203.40
LOCATION	L0043742	VOLUME	441707.069	3761087.266	203.42
LOCATION	L0043743	VOLUME	441710.069	3761087.248	203.44
LOCATION	L0043744	VOLUME	441713.069	3761087.229	203.47
LOCATION	L0043745	VOLUME	441716.069	3761087.211	203.49
LOCATION	L0043746	VOLUME	441719.069	3761087.192	203.51
LOCATION	L0043747	VOLUME	441722.069	3761087.174	203.53
LOCATION	L0043748	VOLUME	441725.069	3761087.155	203.56
LOCATION	L0043749	VOLUME	441728.068	3761087.137	203.60

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LOCATION L0043750	VOLUME	441731.068	3761087.118	203.64
LOCATION L0043751	VOLUME	441734.068	3761087.100	203.68
LOCATION L0043752	VOLUME	441737.068	3761087.081	203.72
LOCATION L0043753	VOLUME	441740.068	3761087.063	203.77
LOCATION L0043754	VOLUME	441743.068	3761087.044	203.81
LOCATION L0043755	VOLUME	441746.068	3761087.026	203.85
LOCATION L0043756	VOLUME	441749.068	3761087.007	203.89
LOCATION L0043757	VOLUME	441752.068	3761086.988	203.91
LOCATION L0043758	VOLUME	441755.068	3761086.970	203.94
LOCATION L0043759	VOLUME	441758.068	3761086.951	203.96
LOCATION L0043760	VOLUME	441761.068	3761086.933	203.98
LOCATION L0043761	VOLUME	441764.068	3761086.914	204.01
LOCATION L0043762	VOLUME	441767.068	3761086.896	204.03
LOCATION L0043763	VOLUME	441770.068	3761086.877	204.06
LOCATION L0043764	VOLUME	441773.068	3761086.859	204.08
LOCATION L0043765	VOLUME	441776.068	3761086.840	204.09
LOCATION L0043766	VOLUME	441779.068	3761086.822	204.10
LOCATION L0043767	VOLUME	441782.067	3761086.803	204.10
LOCATION L0043768	VOLUME	441785.067	3761086.785	204.10
LOCATION L0043769	VOLUME	441788.067	3761086.766	204.10
LOCATION L0043770	VOLUME	441791.067	3761086.748	204.11
LOCATION L0043771	VOLUME	441794.067	3761086.729	204.11
LOCATION L0043772	VOLUME	441797.067	3761086.711	204.11
LOCATION L0043773	VOLUME	441800.067	3761086.692	204.11
LOCATION L0043774	VOLUME	441803.067	3761086.674	204.07
LOCATION L0043775	VOLUME	441806.067	3761086.655	204.02
LOCATION L0043776	VOLUME	441809.067	3761086.637	203.98
LOCATION L0043777	VOLUME	441812.067	3761086.618	203.93
LOCATION L0043778	VOLUME	441815.067	3761086.600	203.89
LOCATION L0043779	VOLUME	441818.067	3761086.581	203.85
LOCATION L0043780	VOLUME	441821.067	3761086.563	203.80
LOCATION L0043781	VOLUME	441824.067	3761086.544	203.76
LOCATION L0043782	VOLUME	441827.067	3761086.526	203.71
LOCATION L0043783	VOLUME	441830.067	3761086.507	203.67
LOCATION L0043784	VOLUME	441833.066	3761086.488	203.63
LOCATION L0043785	VOLUME	441836.066	3761086.470	203.58
LOCATION L0043786	VOLUME	441839.066	3761086.451	203.54
LOCATION L0043787	VOLUME	441842.066	3761086.433	203.49
LOCATION L0043788	VOLUME	441845.066	3761086.414	203.45
LOCATION L0043789	VOLUME	441848.066	3761086.396	203.41
LOCATION L0043790	VOLUME	441851.066	3761086.377	203.36
LOCATION L0043791	VOLUME	441854.066	3761086.359	203.35
LOCATION L0043792	VOLUME	441857.066	3761086.340	203.35
LOCATION L0043793	VOLUME	441860.066	3761086.322	203.34
LOCATION L0043794	VOLUME	441863.066	3761086.303	203.33
LOCATION L0043795	VOLUME	441866.066	3761086.285	203.32
LOCATION L0043796	VOLUME	441869.066	3761086.266	203.32
LOCATION L0043797	VOLUME	441872.066	3761086.248	203.31

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LOCATION L0043798	VOLUME	441875.066	3761086.229	203.30
LOCATION L0043799	VOLUME	441878.066	3761086.211	203.32
LOCATION L0043800	VOLUME	441881.066	3761086.192	203.36
LOCATION L0043801	VOLUME	441884.066	3761086.174	203.41
LOCATION L0043802	VOLUME	441887.065	3761086.155	203.46
LOCATION L0043803	VOLUME	441890.065	3761086.137	203.51
LOCATION L0043804	VOLUME	441893.065	3761086.118	203.56
LOCATION L0043805	VOLUME	441896.065	3761086.100	203.60
LOCATION L0043806	VOLUME	441899.065	3761086.081	203.65
LOCATION L0043807	VOLUME	441902.065	3761086.063	203.70
LOCATION L0043808	VOLUME	441905.065	3761086.044	203.76
LOCATION L0043809	VOLUME	441908.065	3761086.026	203.82
LOCATION L0043810	VOLUME	441911.065	3761086.007	203.89

\*\* End of LINE VOLUME Source ID = SLINE54

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE55

\*\* DESCRSRC Idle - Building 2 Loading Docks - South

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.57E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441622.717, 3760908.828, 202.56, 3.66, 1.40

\*\* 441910.733, 3760909.919, 202.76, 3.66, 1.40

\*\*

LOCATION L0043811	VOLUME	441624.217	3760908.833	202.58
LOCATION L0043812	VOLUME	441627.217	3760908.845	202.56
LOCATION L0043813	VOLUME	441630.217	3760908.856	202.54
LOCATION L0043814	VOLUME	441633.217	3760908.867	202.52
LOCATION L0043815	VOLUME	441636.217	3760908.879	202.50
LOCATION L0043816	VOLUME	441639.217	3760908.890	202.49
LOCATION L0043817	VOLUME	441642.217	3760908.902	202.47
LOCATION L0043818	VOLUME	441645.217	3760908.913	202.45
LOCATION L0043819	VOLUME	441648.217	3760908.924	202.44
LOCATION L0043820	VOLUME	441651.217	3760908.936	202.44
LOCATION L0043821	VOLUME	441654.217	3760908.947	202.43
LOCATION L0043822	VOLUME	441657.217	3760908.958	202.42
LOCATION L0043823	VOLUME	441660.217	3760908.970	202.41
LOCATION L0043824	VOLUME	441663.217	3760908.981	202.40
LOCATION L0043825	VOLUME	441666.217	3760908.992	202.39
LOCATION L0043826	VOLUME	441669.217	3760909.004	202.39
LOCATION L0043827	VOLUME	441672.217	3760909.015	202.38
LOCATION L0043828	VOLUME	441675.216	3760909.027	202.37
LOCATION L0043829	VOLUME	441678.216	3760909.038	202.36
LOCATION L0043830	VOLUME	441681.216	3760909.049	202.35

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LOCATION L0043831	VOLUME	441684.216	3760909.061	202.33
LOCATION L0043832	VOLUME	441687.216	3760909.072	202.32
LOCATION L0043833	VOLUME	441690.216	3760909.083	202.31
LOCATION L0043834	VOLUME	441693.216	3760909.095	202.30
LOCATION L0043835	VOLUME	441696.216	3760909.106	202.29
LOCATION L0043836	VOLUME	441699.216	3760909.117	202.30
LOCATION L0043837	VOLUME	441702.216	3760909.129	202.30
LOCATION L0043838	VOLUME	441705.216	3760909.140	202.30
LOCATION L0043839	VOLUME	441708.216	3760909.152	202.30
LOCATION L0043840	VOLUME	441711.216	3760909.163	202.31
LOCATION L0043841	VOLUME	441714.216	3760909.174	202.31
LOCATION L0043842	VOLUME	441717.216	3760909.186	202.31
LOCATION L0043843	VOLUME	441720.216	3760909.197	202.32
LOCATION L0043844	VOLUME	441723.216	3760909.208	202.33
LOCATION L0043845	VOLUME	441726.216	3760909.220	202.36
LOCATION L0043846	VOLUME	441729.216	3760909.231	202.38
LOCATION L0043847	VOLUME	441732.216	3760909.242	202.41
LOCATION L0043848	VOLUME	441735.216	3760909.254	202.44
LOCATION L0043849	VOLUME	441738.216	3760909.265	202.46
LOCATION L0043850	VOLUME	441741.216	3760909.277	202.49
LOCATION L0043851	VOLUME	441744.216	3760909.288	202.52
LOCATION L0043852	VOLUME	441747.216	3760909.299	202.54
LOCATION L0043853	VOLUME	441750.216	3760909.311	202.56
LOCATION L0043854	VOLUME	441753.216	3760909.322	202.59
LOCATION L0043855	VOLUME	441756.216	3760909.333	202.61
LOCATION L0043856	VOLUME	441759.216	3760909.345	202.63
LOCATION L0043857	VOLUME	441762.216	3760909.356	202.65
LOCATION L0043858	VOLUME	441765.216	3760909.367	202.67
LOCATION L0043859	VOLUME	441768.216	3760909.379	202.69
LOCATION L0043860	VOLUME	441771.216	3760909.390	202.71
LOCATION L0043861	VOLUME	441774.216	3760909.402	202.73
LOCATION L0043862	VOLUME	441777.216	3760909.413	202.73
LOCATION L0043863	VOLUME	441780.216	3760909.424	202.74
LOCATION L0043864	VOLUME	441783.216	3760909.436	202.74
LOCATION L0043865	VOLUME	441786.216	3760909.447	202.75
LOCATION L0043866	VOLUME	441789.216	3760909.458	202.76
LOCATION L0043867	VOLUME	441792.216	3760909.470	202.76
LOCATION L0043868	VOLUME	441795.216	3760909.481	202.77
LOCATION L0043869	VOLUME	441798.216	3760909.492	202.77
LOCATION L0043870	VOLUME	441801.216	3760909.504	202.75
LOCATION L0043871	VOLUME	441804.216	3760909.515	202.73
LOCATION L0043872	VOLUME	441807.216	3760909.527	202.71
LOCATION L0043873	VOLUME	441810.216	3760909.538	202.69
LOCATION L0043874	VOLUME	441813.216	3760909.549	202.66
LOCATION L0043875	VOLUME	441816.215	3760909.561	202.64
LOCATION L0043876	VOLUME	441819.215	3760909.572	202.62
LOCATION L0043877	VOLUME	441822.215	3760909.583	202.60
LOCATION L0043878	VOLUME	441825.215	3760909.595	202.57

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LOCATION	VOLUME			
L0043879	441828.215	3760909.606	202.54	
L0043880	441831.215	3760909.617	202.51	
L0043881	441834.215	3760909.629	202.47	
L0043882	441837.215	3760909.640	202.44	
L0043883	441840.215	3760909.652	202.41	
L0043884	441843.215	3760909.663	202.38	
L0043885	441846.215	3760909.674	202.35	
L0043886	441849.215	3760909.686	202.31	
L0043887	441852.215	3760909.697	202.31	
L0043888	441855.215	3760909.708	202.31	
L0043889	441858.215	3760909.720	202.32	
L0043890	441861.215	3760909.731	202.32	
L0043891	441864.215	3760909.742	202.33	
L0043892	441867.215	3760909.754	202.33	
L0043893	441870.215	3760909.765	202.34	
L0043894	441873.215	3760909.777	202.35	
L0043895	441876.215	3760909.788	202.36	
L0043896	441879.215	3760909.799	202.40	
L0043897	441882.215	3760909.811	202.44	
L0043898	441885.215	3760909.822	202.48	
L0043899	441888.215	3760909.833	202.52	
L0043900	441891.215	3760909.845	202.56	
L0043901	441894.215	3760909.856	202.60	
L0043902	441897.215	3760909.867	202.64	
L0043903	441900.215	3760909.879	202.69	
L0043904	441903.215	3760909.890	202.73	
L0043905	441906.215	3760909.902	202.78	
L0043906	441909.215	3760909.913	202.82	

\*\* End of LINE VOLUME Source ID = SLINE55

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE56

\*\* DESCRSRC Idle - Building 3 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.59E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441904.376, 3760783.381, 201.74, 3.66, 1.40

\*\* 441611.217, 3760789.599, 201.29, 3.66, 1.40

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LOCATION L0043907	VOLUME	441902.877	3760783.413	201.79
LOCATION L0043908	VOLUME	441899.877	3760783.476	201.76
LOCATION L0043909	VOLUME	441896.878	3760783.540	201.74
LOCATION L0043910	VOLUME	441893.879	3760783.604	201.72
LOCATION L0043911	VOLUME	441890.879	3760783.667	201.70

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LOCATION L0043912	VOLUME	441887.880	3760783.731	201.68
LOCATION L0043913	VOLUME	441884.881	3760783.794	201.66
LOCATION L0043914	VOLUME	441881.881	3760783.858	201.63
LOCATION L0043915	VOLUME	441878.882	3760783.922	201.61
LOCATION L0043916	VOLUME	441875.883	3760783.985	201.59
LOCATION L0043917	VOLUME	441872.883	3760784.049	201.58
LOCATION L0043918	VOLUME	441869.884	3760784.113	201.58
LOCATION L0043919	VOLUME	441866.885	3760784.176	201.57
LOCATION L0043920	VOLUME	441863.885	3760784.240	201.56
LOCATION L0043921	VOLUME	441860.886	3760784.303	201.56
LOCATION L0043922	VOLUME	441857.887	3760784.367	201.55
LOCATION L0043923	VOLUME	441854.887	3760784.431	201.55
LOCATION L0043924	VOLUME	441851.888	3760784.494	201.54
LOCATION L0043925	VOLUME	441848.889	3760784.558	201.53
LOCATION L0043926	VOLUME	441845.889	3760784.622	201.53
LOCATION L0043927	VOLUME	441842.890	3760784.685	201.53
LOCATION L0043928	VOLUME	441839.891	3760784.749	201.53
LOCATION L0043929	VOLUME	441836.892	3760784.812	201.53
LOCATION L0043930	VOLUME	441833.892	3760784.876	201.53
LOCATION L0043931	VOLUME	441830.893	3760784.940	201.53
LOCATION L0043932	VOLUME	441827.894	3760785.003	201.53
LOCATION L0043933	VOLUME	441824.894	3760785.067	201.53
LOCATION L0043934	VOLUME	441821.895	3760785.131	201.52
LOCATION L0043935	VOLUME	441818.896	3760785.194	201.51
LOCATION L0043936	VOLUME	441815.896	3760785.258	201.49
LOCATION L0043937	VOLUME	441812.897	3760785.321	201.48
LOCATION L0043938	VOLUME	441809.898	3760785.385	201.47
LOCATION L0043939	VOLUME	441806.898	3760785.449	201.45
LOCATION L0043940	VOLUME	441803.899	3760785.512	201.44
LOCATION L0043941	VOLUME	441800.900	3760785.576	201.43
LOCATION L0043942	VOLUME	441797.900	3760785.639	201.41
LOCATION L0043943	VOLUME	441794.901	3760785.703	201.43
LOCATION L0043944	VOLUME	441791.902	3760785.767	201.44
LOCATION L0043945	VOLUME	441788.902	3760785.830	201.45
LOCATION L0043946	VOLUME	441785.903	3760785.894	201.46
LOCATION L0043947	VOLUME	441782.904	3760785.958	201.47
LOCATION L0043948	VOLUME	441779.904	3760786.021	201.48
LOCATION L0043949	VOLUME	441776.905	3760786.085	201.50
LOCATION L0043950	VOLUME	441773.906	3760786.148	201.51
LOCATION L0043951	VOLUME	441770.906	3760786.212	201.50
LOCATION L0043952	VOLUME	441767.907	3760786.276	201.49
LOCATION L0043953	VOLUME	441764.908	3760786.339	201.47
LOCATION L0043954	VOLUME	441761.908	3760786.403	201.46
LOCATION L0043955	VOLUME	441758.909	3760786.467	201.44
LOCATION L0043956	VOLUME	441755.910	3760786.530	201.42
LOCATION L0043957	VOLUME	441752.910	3760786.594	201.41
LOCATION L0043958	VOLUME	441749.911	3760786.657	201.39
LOCATION L0043959	VOLUME	441746.912	3760786.721	201.38

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LOCATION L0043960	VOLUME	441743.912	3760786.785	201.38
LOCATION L0043961	VOLUME	441740.913	3760786.848	201.38
LOCATION L0043962	VOLUME	441737.914	3760786.912	201.38
LOCATION L0043963	VOLUME	441734.914	3760786.976	201.38
LOCATION L0043964	VOLUME	441731.915	3760787.039	201.38
LOCATION L0043965	VOLUME	441728.916	3760787.103	201.39
LOCATION L0043966	VOLUME	441725.916	3760787.166	201.39
LOCATION L0043967	VOLUME	441722.917	3760787.230	201.39
LOCATION L0043968	VOLUME	441719.918	3760787.294	201.39
LOCATION L0043969	VOLUME	441716.919	3760787.357	201.38
LOCATION L0043970	VOLUME	441713.919	3760787.421	201.37
LOCATION L0043971	VOLUME	441710.920	3760787.485	201.37
LOCATION L0043972	VOLUME	441707.921	3760787.548	201.36
LOCATION L0043973	VOLUME	441704.921	3760787.612	201.35
LOCATION L0043974	VOLUME	441701.922	3760787.675	201.34
LOCATION L0043975	VOLUME	441698.923	3760787.739	201.33
LOCATION L0043976	VOLUME	441695.923	3760787.803	201.33
LOCATION L0043977	VOLUME	441692.924	3760787.866	201.31
LOCATION L0043978	VOLUME	441689.925	3760787.930	201.30
LOCATION L0043979	VOLUME	441686.925	3760787.993	201.29
LOCATION L0043980	VOLUME	441683.926	3760788.057	201.27
LOCATION L0043981	VOLUME	441680.927	3760788.121	201.26
LOCATION L0043982	VOLUME	441677.927	3760788.184	201.25
LOCATION L0043983	VOLUME	441674.928	3760788.248	201.23
LOCATION L0043984	VOLUME	441671.929	3760788.312	201.22
LOCATION L0043985	VOLUME	441668.929	3760788.375	201.21
LOCATION L0043986	VOLUME	441665.930	3760788.439	201.21
LOCATION L0043987	VOLUME	441662.931	3760788.502	201.21
LOCATION L0043988	VOLUME	441659.931	3760788.566	201.22
LOCATION L0043989	VOLUME	441656.932	3760788.630	201.22
LOCATION L0043990	VOLUME	441653.933	3760788.693	201.22
LOCATION L0043991	VOLUME	441650.933	3760788.757	201.22
LOCATION L0043992	VOLUME	441647.934	3760788.821	201.22
LOCATION L0043993	VOLUME	441644.935	3760788.884	201.22
LOCATION L0043994	VOLUME	441641.935	3760788.948	201.24
LOCATION L0043995	VOLUME	441638.936	3760789.011	201.25
LOCATION L0043996	VOLUME	441635.937	3760789.075	201.26
LOCATION L0043997	VOLUME	441632.937	3760789.139	201.28
LOCATION L0043998	VOLUME	441629.938	3760789.202	201.29
LOCATION L0043999	VOLUME	441626.939	3760789.266	201.31
LOCATION L0044000	VOLUME	441623.939	3760789.330	201.32
LOCATION L0044001	VOLUME	441620.940	3760789.393	201.34
LOCATION L0044002	VOLUME	441617.941	3760789.457	201.35
LOCATION L0044003	VOLUME	441614.941	3760789.520	201.36
LOCATION L0044004	VOLUME	441611.942	3760789.584	201.36

\*\* End of LINE VOLUME Source ID = SLINE56

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\*\* Line Source Represented by Adjacent Volume Sources



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\*\* LINE VOLUME Source ID = SLINE57  
 \*\* DESCRSRC Idle - Building 1 Loading Docks - West  
 \*\* PREFIX  
 \*\* Length of Side = 3.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 9.32E-15  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2  
 \*\* 441290.629, 3761091.183, 203.21, 3.66, 1.40  
 \*\* 441290.629, 3760593.550, 200.22, 3.66, 1.40

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LOCATION	VOLUME	441290.629	3761089.683	203.21
LOCATION L0044005	VOLUME	441290.629	3761089.683	203.21
LOCATION L0044006	VOLUME	441290.629	3761086.683	203.19
LOCATION L0044007	VOLUME	441290.629	3761083.683	203.17
LOCATION L0044008	VOLUME	441290.629	3761080.683	203.15
LOCATION L0044009	VOLUME	441290.629	3761077.683	203.13
LOCATION L0044010	VOLUME	441290.629	3761074.683	203.11
LOCATION L0044011	VOLUME	441290.629	3761071.683	203.09
LOCATION L0044012	VOLUME	441290.629	3761068.683	203.07
LOCATION L0044013	VOLUME	441290.629	3761065.683	203.05
LOCATION L0044014	VOLUME	441290.629	3761062.683	203.03
LOCATION L0044015	VOLUME	441290.629	3761059.683	203.01
LOCATION L0044016	VOLUME	441290.629	3761056.683	202.99
LOCATION L0044017	VOLUME	441290.629	3761053.683	202.97
LOCATION L0044018	VOLUME	441290.629	3761050.683	202.95
LOCATION L0044019	VOLUME	441290.629	3761047.683	202.93
LOCATION L0044020	VOLUME	441290.629	3761044.683	202.91
LOCATION L0044021	VOLUME	441290.629	3761041.683	202.89
LOCATION L0044022	VOLUME	441290.629	3761038.683	202.87
LOCATION L0044023	VOLUME	441290.629	3761035.683	202.85
LOCATION L0044024	VOLUME	441290.629	3761032.683	202.83
LOCATION L0044025	VOLUME	441290.629	3761029.683	202.81
LOCATION L0044026	VOLUME	441290.629	3761026.683	202.79
LOCATION L0044027	VOLUME	441290.629	3761023.683	202.77
LOCATION L0044028	VOLUME	441290.629	3761020.683	202.75
LOCATION L0044029	VOLUME	441290.629	3761017.683	202.73
LOCATION L0044030	VOLUME	441290.629	3761014.683	202.71
LOCATION L0044031	VOLUME	441290.629	3761011.683	202.69
LOCATION L0044032	VOLUME	441290.629	3761008.683	202.68
LOCATION L0044033	VOLUME	441290.629	3761005.683	202.66
LOCATION L0044034	VOLUME	441290.629	3761002.683	202.64
LOCATION L0044035	VOLUME	441290.629	3760999.683	202.62
LOCATION L0044036	VOLUME	441290.629	3760996.683	202.60
LOCATION L0044037	VOLUME	441290.629	3760993.683	202.58
LOCATION L0044038	VOLUME	441290.629	3760990.683	202.56
LOCATION L0044039	VOLUME	441290.629	3760987.683	202.55
LOCATION L0044040	VOLUME	441290.629	3760984.683	202.53

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LOCATION L0044041	VOLUME	441290.629	3760981.683	202.51
LOCATION L0044042	VOLUME	441290.629	3760978.683	202.49
LOCATION L0044043	VOLUME	441290.629	3760975.683	202.47
LOCATION L0044044	VOLUME	441290.629	3760972.683	202.46
LOCATION L0044045	VOLUME	441290.629	3760969.683	202.44
LOCATION L0044046	VOLUME	441290.629	3760966.683	202.42
LOCATION L0044047	VOLUME	441290.629	3760963.683	202.40
LOCATION L0044048	VOLUME	441290.629	3760960.683	202.38
LOCATION L0044049	VOLUME	441290.629	3760957.683	202.37
LOCATION L0044050	VOLUME	441290.629	3760954.683	202.35
LOCATION L0044051	VOLUME	441290.629	3760951.683	202.33
LOCATION L0044052	VOLUME	441290.629	3760948.683	202.31
LOCATION L0044053	VOLUME	441290.629	3760945.683	202.29
LOCATION L0044054	VOLUME	441290.629	3760942.683	202.28
LOCATION L0044055	VOLUME	441290.629	3760939.683	202.26
LOCATION L0044056	VOLUME	441290.629	3760936.683	202.24
LOCATION L0044057	VOLUME	441290.629	3760933.683	202.22
LOCATION L0044058	VOLUME	441290.629	3760930.683	202.20
LOCATION L0044059	VOLUME	441290.629	3760927.683	202.19
LOCATION L0044060	VOLUME	441290.629	3760924.683	202.17
LOCATION L0044061	VOLUME	441290.629	3760921.683	202.15
LOCATION L0044062	VOLUME	441290.629	3760918.683	202.13
LOCATION L0044063	VOLUME	441290.629	3760915.683	202.11
LOCATION L0044064	VOLUME	441290.629	3760912.683	202.10
LOCATION L0044065	VOLUME	441290.629	3760909.683	202.08
LOCATION L0044066	VOLUME	441290.629	3760906.683	202.06
LOCATION L0044067	VOLUME	441290.629	3760903.683	202.04
LOCATION L0044068	VOLUME	441290.629	3760900.683	202.02
LOCATION L0044069	VOLUME	441290.629	3760897.683	202.00
LOCATION L0044070	VOLUME	441290.629	3760894.683	201.98
LOCATION L0044071	VOLUME	441290.629	3760891.683	201.96
LOCATION L0044072	VOLUME	441290.629	3760888.683	201.94
LOCATION L0044073	VOLUME	441290.629	3760885.683	201.92
LOCATION L0044074	VOLUME	441290.629	3760882.683	201.90
LOCATION L0044075	VOLUME	441290.629	3760879.683	201.88
LOCATION L0044076	VOLUME	441290.629	3760876.683	201.86
LOCATION L0044077	VOLUME	441290.629	3760873.683	201.84
LOCATION L0044078	VOLUME	441290.629	3760870.683	201.83
LOCATION L0044079	VOLUME	441290.629	3760867.683	201.81
LOCATION L0044080	VOLUME	441290.629	3760864.683	201.79
LOCATION L0044081	VOLUME	441290.629	3760861.683	201.77
LOCATION L0044082	VOLUME	441290.629	3760858.683	201.75
LOCATION L0044083	VOLUME	441290.629	3760855.683	201.74
LOCATION L0044084	VOLUME	441290.629	3760852.683	201.72
LOCATION L0044085	VOLUME	441290.629	3760849.683	201.70
LOCATION L0044086	VOLUME	441290.629	3760846.683	201.68
LOCATION L0044087	VOLUME	441290.629	3760843.683	201.66
LOCATION L0044088	VOLUME	441290.629	3760840.683	201.64

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LOCATION L0044089	VOLUME	441290.629	3760837.683	201.62
LOCATION L0044090	VOLUME	441290.629	3760834.683	201.60
LOCATION L0044091	VOLUME	441290.629	3760831.683	201.58
LOCATION L0044092	VOLUME	441290.629	3760828.683	201.56
LOCATION L0044093	VOLUME	441290.629	3760825.683	201.54
LOCATION L0044094	VOLUME	441290.629	3760822.683	201.52
LOCATION L0044095	VOLUME	441290.629	3760819.683	201.50
LOCATION L0044096	VOLUME	441290.629	3760816.683	201.48
LOCATION L0044097	VOLUME	441290.629	3760813.683	201.46
LOCATION L0044098	VOLUME	441290.629	3760810.683	201.44
LOCATION L0044099	VOLUME	441290.629	3760807.683	201.42
LOCATION L0044100	VOLUME	441290.629	3760804.683	201.40
LOCATION L0044101	VOLUME	441290.629	3760801.683	201.38
LOCATION L0044102	VOLUME	441290.629	3760798.683	201.36
LOCATION L0044103	VOLUME	441290.629	3760795.683	201.34
LOCATION L0044104	VOLUME	441290.629	3760792.683	201.32
LOCATION L0044105	VOLUME	441290.629	3760789.683	201.30
LOCATION L0044106	VOLUME	441290.629	3760786.683	201.28
LOCATION L0044107	VOLUME	441290.629	3760783.683	201.26
LOCATION L0044108	VOLUME	441290.629	3760780.683	201.25
LOCATION L0044109	VOLUME	441290.629	3760777.683	201.23
LOCATION L0044110	VOLUME	441290.629	3760774.683	201.21
LOCATION L0044111	VOLUME	441290.629	3760771.683	201.19
LOCATION L0044112	VOLUME	441290.629	3760768.683	201.17
LOCATION L0044113	VOLUME	441290.629	3760765.683	201.15
LOCATION L0044114	VOLUME	441290.629	3760762.683	201.13
LOCATION L0044115	VOLUME	441290.629	3760759.683	201.11
LOCATION L0044116	VOLUME	441290.629	3760756.683	201.09
LOCATION L0044117	VOLUME	441290.629	3760753.683	201.07
LOCATION L0044118	VOLUME	441290.629	3760750.683	201.06
LOCATION L0044119	VOLUME	441290.629	3760747.683	201.04
LOCATION L0044120	VOLUME	441290.629	3760744.683	201.02
LOCATION L0044121	VOLUME	441290.629	3760741.683	201.00
LOCATION L0044122	VOLUME	441290.629	3760738.683	200.98
LOCATION L0044123	VOLUME	441290.629	3760735.683	200.96
LOCATION L0044124	VOLUME	441290.629	3760732.683	200.94
LOCATION L0044125	VOLUME	441290.629	3760729.683	200.93
LOCATION L0044126	VOLUME	441290.629	3760726.683	200.91
LOCATION L0044127	VOLUME	441290.629	3760723.683	200.89
LOCATION L0044128	VOLUME	441290.629	3760720.683	200.87
LOCATION L0044129	VOLUME	441290.629	3760717.683	200.85
LOCATION L0044130	VOLUME	441290.629	3760714.683	200.84
LOCATION L0044131	VOLUME	441290.629	3760711.683	200.82
LOCATION L0044132	VOLUME	441290.629	3760708.683	200.80
LOCATION L0044133	VOLUME	441290.629	3760705.683	200.78
LOCATION L0044134	VOLUME	441290.629	3760702.683	200.77
LOCATION L0044135	VOLUME	441290.629	3760699.683	200.75
LOCATION L0044136	VOLUME	441290.629	3760696.683	200.73

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LOCATION L0044137	VOLUME	441290.629	3760693.683	200.72
LOCATION L0044138	VOLUME	441290.629	3760690.683	200.70
LOCATION L0044139	VOLUME	441290.629	3760687.683	200.68
LOCATION L0044140	VOLUME	441290.629	3760684.683	200.66
LOCATION L0044141	VOLUME	441290.629	3760681.683	200.65
LOCATION L0044142	VOLUME	441290.629	3760678.683	200.63
LOCATION L0044143	VOLUME	441290.629	3760675.683	200.61
LOCATION L0044144	VOLUME	441290.629	3760672.683	200.60
LOCATION L0044145	VOLUME	441290.629	3760669.683	200.58
LOCATION L0044146	VOLUME	441290.629	3760666.683	200.56
LOCATION L0044147	VOLUME	441290.629	3760663.683	200.54
LOCATION L0044148	VOLUME	441290.629	3760660.683	200.53
LOCATION L0044149	VOLUME	441290.629	3760657.683	200.51
LOCATION L0044150	VOLUME	441290.629	3760654.683	200.50
LOCATION L0044151	VOLUME	441290.629	3760651.683	200.48
LOCATION L0044152	VOLUME	441290.629	3760648.683	200.47
LOCATION L0044153	VOLUME	441290.629	3760645.683	200.45
LOCATION L0044154	VOLUME	441290.629	3760642.683	200.44
LOCATION L0044155	VOLUME	441290.629	3760639.683	200.42
LOCATION L0044156	VOLUME	441290.629	3760636.683	200.41
LOCATION L0044157	VOLUME	441290.629	3760633.683	200.39
LOCATION L0044158	VOLUME	441290.629	3760630.683	200.38
LOCATION L0044159	VOLUME	441290.629	3760627.683	200.37
LOCATION L0044160	VOLUME	441290.629	3760624.683	200.35
LOCATION L0044161	VOLUME	441290.629	3760621.683	200.34
LOCATION L0044162	VOLUME	441290.629	3760618.683	200.33
LOCATION L0044163	VOLUME	441290.629	3760615.683	200.31
LOCATION L0044164	VOLUME	441290.629	3760612.683	200.30
LOCATION L0044165	VOLUME	441290.629	3760609.683	200.29
LOCATION L0044166	VOLUME	441290.629	3760606.683	200.27
LOCATION L0044167	VOLUME	441290.629	3760603.683	200.26
LOCATION L0044168	VOLUME	441290.629	3760600.683	200.24
LOCATION L0044169	VOLUME	441290.629	3760597.683	200.23
LOCATION L0044170	VOLUME	441290.629	3760594.683	200.22

\*\* End of LINE VOLUME Source ID = SLINE57

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE58

\*\* DESCRSRC Idle - Building 1 Loading Docks - East

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.23E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441471.455, 3761092.629, 203.26, 3.66, 1.40

\*\* 441470.008, 3760602.229, 200.16, 3.66, 1.40

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LOCATION L0044171    VOLUME  441471.451 3761091.129 203.28  
LOCATION L0044172    VOLUME  441471.442 3761088.129 203.26  
LOCATION L0044173    VOLUME  441471.433 3761085.129 203.24  
LOCATION L0044174    VOLUME  441471.424 3761082.129 203.22  
LOCATION L0044175    VOLUME  441471.415 3761079.129 203.20  
LOCATION L0044176    VOLUME  441471.406 3761076.129 203.18  
LOCATION L0044177    VOLUME  441471.397 3761073.129 203.15  
LOCATION L0044178    VOLUME  441471.389 3761070.129 203.13  
LOCATION L0044179    VOLUME  441471.380 3761067.129 203.11  
LOCATION L0044180    VOLUME  441471.371 3761064.129 203.09  
LOCATION L0044181    VOLUME  441471.362 3761061.129 203.07  
LOCATION L0044182    VOLUME  441471.353 3761058.129 203.05  
LOCATION L0044183    VOLUME  441471.344 3761055.129 203.03  
LOCATION L0044184    VOLUME  441471.335 3761052.129 203.01  
LOCATION L0044185    VOLUME  441471.327 3761049.129 202.98  
LOCATION L0044186    VOLUME  441471.318 3761046.129 202.96  
LOCATION L0044187    VOLUME  441471.309 3761043.129 202.94  
LOCATION L0044188    VOLUME  441471.300 3761040.129 202.92  
LOCATION L0044189    VOLUME  441471.291 3761037.129 202.90  
LOCATION L0044190    VOLUME  441471.282 3761034.129 202.88  
LOCATION L0044191    VOLUME  441471.274 3761031.129 202.86  
LOCATION L0044192    VOLUME  441471.265 3761028.129 202.84  
LOCATION L0044193    VOLUME  441471.256 3761025.129 202.81  
LOCATION L0044194    VOLUME  441471.247 3761022.129 202.78  
LOCATION L0044195    VOLUME  441471.238 3761019.129 202.75  
LOCATION L0044196    VOLUME  441471.229 3761016.129 202.72  
LOCATION L0044197    VOLUME  441471.220 3761013.130 202.69  
LOCATION L0044198    VOLUME  441471.212 3761010.130 202.66  
LOCATION L0044199    VOLUME  441471.203 3761007.130 202.63  
LOCATION L0044200    VOLUME  441471.194 3761004.130 202.60  
LOCATION L0044201    VOLUME  441471.185 3761001.130 202.58  
LOCATION L0044202    VOLUME  441471.176 3760998.130 202.55  
LOCATION L0044203    VOLUME  441471.167 3760995.130 202.51  
LOCATION L0044204    VOLUME  441471.158 3760992.130 202.48  
LOCATION L0044205    VOLUME  441471.150 3760989.130 202.45  
LOCATION L0044206    VOLUME  441471.141 3760986.130 202.41  
LOCATION L0044207    VOLUME  441471.132 3760983.130 202.38  
LOCATION L0044208    VOLUME  441471.123 3760980.130 202.35  
LOCATION L0044209    VOLUME  441471.114 3760977.130 202.31  
LOCATION L0044210    VOLUME  441471.105 3760974.130 202.28  
LOCATION L0044211    VOLUME  441471.097 3760971.130 202.25  
LOCATION L0044212    VOLUME  441471.088 3760968.130 202.21  
LOCATION L0044213    VOLUME  441471.079 3760965.130 202.19  
LOCATION L0044214    VOLUME  441471.070 3760962.130 202.17  
LOCATION L0044215    VOLUME  441471.061 3760959.130 202.15  
LOCATION L0044216    VOLUME  441471.052 3760956.130 202.14  
LOCATION L0044217    VOLUME  441471.043 3760953.130 202.12
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LOCATION L0044218	VOLUME	441471.035	3760950.130	202.11
LOCATION L0044219	VOLUME	441471.026	3760947.130	202.09
LOCATION L0044220	VOLUME	441471.017	3760944.130	202.07
LOCATION L0044221	VOLUME	441471.008	3760941.130	202.06
LOCATION L0044222	VOLUME	441470.999	3760938.130	202.04
LOCATION L0044223	VOLUME	441470.990	3760935.130	202.02
LOCATION L0044224	VOLUME	441470.981	3760932.130	202.02
LOCATION L0044225	VOLUME	441470.973	3760929.130	202.01
LOCATION L0044226	VOLUME	441470.964	3760926.130	202.00
LOCATION L0044227	VOLUME	441470.955	3760923.130	201.99
LOCATION L0044228	VOLUME	441470.946	3760920.130	201.98
LOCATION L0044229	VOLUME	441470.937	3760917.130	201.97
LOCATION L0044230	VOLUME	441470.928	3760914.130	201.96
LOCATION L0044231	VOLUME	441470.920	3760911.130	201.95
LOCATION L0044232	VOLUME	441470.911	3760908.130	201.94
LOCATION L0044233	VOLUME	441470.902	3760905.130	201.93
LOCATION L0044234	VOLUME	441470.893	3760902.130	201.94
LOCATION L0044235	VOLUME	441470.884	3760899.130	201.96
LOCATION L0044236	VOLUME	441470.875	3760896.130	201.97
LOCATION L0044237	VOLUME	441470.866	3760893.130	201.99
LOCATION L0044238	VOLUME	441470.858	3760890.130	202.00
LOCATION L0044239	VOLUME	441470.849	3760887.130	202.02
LOCATION L0044240	VOLUME	441470.840	3760884.130	202.03
LOCATION L0044241	VOLUME	441470.831	3760881.130	202.05
LOCATION L0044242	VOLUME	441470.822	3760878.130	202.07
LOCATION L0044243	VOLUME	441470.813	3760875.130	202.08
LOCATION L0044244	VOLUME	441470.805	3760872.130	202.08
LOCATION L0044245	VOLUME	441470.796	3760869.130	202.07
LOCATION L0044246	VOLUME	441470.787	3760866.130	202.06
LOCATION L0044247	VOLUME	441470.778	3760863.130	202.05
LOCATION L0044248	VOLUME	441470.769	3760860.130	202.04
LOCATION L0044249	VOLUME	441470.760	3760857.130	202.03
LOCATION L0044250	VOLUME	441470.751	3760854.130	202.02
LOCATION L0044251	VOLUME	441470.743	3760851.130	202.01
LOCATION L0044252	VOLUME	441470.734	3760848.130	202.00
LOCATION L0044253	VOLUME	441470.725	3760845.130	201.99
LOCATION L0044254	VOLUME	441470.716	3760842.130	201.98
LOCATION L0044255	VOLUME	441470.707	3760839.130	201.96
LOCATION L0044256	VOLUME	441470.698	3760836.130	201.94
LOCATION L0044257	VOLUME	441470.689	3760833.130	201.92
LOCATION L0044258	VOLUME	441470.681	3760830.130	201.90
LOCATION L0044259	VOLUME	441470.672	3760827.130	201.88
LOCATION L0044260	VOLUME	441470.663	3760824.130	201.86
LOCATION L0044261	VOLUME	441470.654	3760821.130	201.84
LOCATION L0044262	VOLUME	441470.645	3760818.130	201.82
LOCATION L0044263	VOLUME	441470.636	3760815.130	201.80
LOCATION L0044264	VOLUME	441470.628	3760812.130	201.78
LOCATION L0044265	VOLUME	441470.619	3760809.130	201.73

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LOCATION L0044266	VOLUME	441470.610	3760806.130	201.69
LOCATION L0044267	VOLUME	441470.601	3760803.130	201.64
LOCATION L0044268	VOLUME	441470.592	3760800.130	201.59
LOCATION L0044269	VOLUME	441470.583	3760797.130	201.55
LOCATION L0044270	VOLUME	441470.574	3760794.130	201.50
LOCATION L0044271	VOLUME	441470.566	3760791.130	201.45
LOCATION L0044272	VOLUME	441470.557	3760788.130	201.41
LOCATION L0044273	VOLUME	441470.548	3760785.130	201.36
LOCATION L0044274	VOLUME	441470.539	3760782.131	201.31
LOCATION L0044275	VOLUME	441470.530	3760779.131	201.29
LOCATION L0044276	VOLUME	441470.521	3760776.131	201.26
LOCATION L0044277	VOLUME	441470.512	3760773.131	201.24
LOCATION L0044278	VOLUME	441470.504	3760770.131	201.21
LOCATION L0044279	VOLUME	441470.495	3760767.131	201.19
LOCATION L0044280	VOLUME	441470.486	3760764.131	201.16
LOCATION L0044281	VOLUME	441470.477	3760761.131	201.14
LOCATION L0044282	VOLUME	441470.468	3760758.131	201.12
LOCATION L0044283	VOLUME	441470.459	3760755.131	201.09
LOCATION L0044284	VOLUME	441470.451	3760752.131	201.07
LOCATION L0044285	VOLUME	441470.442	3760749.131	201.05
LOCATION L0044286	VOLUME	441470.433	3760746.131	201.03
LOCATION L0044287	VOLUME	441470.424	3760743.131	201.02
LOCATION L0044288	VOLUME	441470.415	3760740.131	201.00
LOCATION L0044289	VOLUME	441470.406	3760737.131	200.99
LOCATION L0044290	VOLUME	441470.397	3760734.131	200.97
LOCATION L0044291	VOLUME	441470.389	3760731.131	200.96
LOCATION L0044292	VOLUME	441470.380	3760728.131	200.94
LOCATION L0044293	VOLUME	441470.371	3760725.131	200.93
LOCATION L0044294	VOLUME	441470.362	3760722.131	200.91
LOCATION L0044295	VOLUME	441470.353	3760719.131	200.89
LOCATION L0044296	VOLUME	441470.344	3760716.131	200.87
LOCATION L0044297	VOLUME	441470.335	3760713.131	200.85
LOCATION L0044298	VOLUME	441470.327	3760710.131	200.83
LOCATION L0044299	VOLUME	441470.318	3760707.131	200.80
LOCATION L0044300	VOLUME	441470.309	3760704.131	200.78
LOCATION L0044301	VOLUME	441470.300	3760701.131	200.76
LOCATION L0044302	VOLUME	441470.291	3760698.131	200.73
LOCATION L0044303	VOLUME	441470.282	3760695.131	200.71
LOCATION L0044304	VOLUME	441470.274	3760692.131	200.69
LOCATION L0044305	VOLUME	441470.265	3760689.131	200.67
LOCATION L0044306	VOLUME	441470.256	3760686.131	200.66
LOCATION L0044307	VOLUME	441470.247	3760683.131	200.64
LOCATION L0044308	VOLUME	441470.238	3760680.131	200.63
LOCATION L0044309	VOLUME	441470.229	3760677.131	200.62
LOCATION L0044310	VOLUME	441470.220	3760674.131	200.61
LOCATION L0044311	VOLUME	441470.212	3760671.131	200.60
LOCATION L0044312	VOLUME	441470.203	3760668.131	200.59
LOCATION L0044313	VOLUME	441470.194	3760665.131	200.58

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LOCATION L0044314	VOLUME	441470.185	3760662.131	200.57
LOCATION L0044315	VOLUME	441470.176	3760659.131	200.56
LOCATION L0044316	VOLUME	441470.167	3760656.131	200.54
LOCATION L0044317	VOLUME	441470.158	3760653.131	200.52
LOCATION L0044318	VOLUME	441470.150	3760650.131	200.50
LOCATION L0044319	VOLUME	441470.141	3760647.131	200.48
LOCATION L0044320	VOLUME	441470.132	3760644.131	200.46
LOCATION L0044321	VOLUME	441470.123	3760641.131	200.44
LOCATION L0044322	VOLUME	441470.114	3760638.131	200.42
LOCATION L0044323	VOLUME	441470.105	3760635.131	200.40
LOCATION L0044324	VOLUME	441470.097	3760632.131	200.38
LOCATION L0044325	VOLUME	441470.088	3760629.131	200.35
LOCATION L0044326	VOLUME	441470.079	3760626.131	200.33
LOCATION L0044327	VOLUME	441470.070	3760623.131	200.32
LOCATION L0044328	VOLUME	441470.061	3760620.131	200.30
LOCATION L0044329	VOLUME	441470.052	3760617.131	200.28
LOCATION L0044330	VOLUME	441470.043	3760614.131	200.26
LOCATION L0044331	VOLUME	441470.035	3760611.131	200.24
LOCATION L0044332	VOLUME	441470.026	3760608.131	200.22
LOCATION L0044333	VOLUME	441470.017	3760605.131	200.20

\*\* End of LINE VOLUME Source ID = SLINE58

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 \*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE59

\*\* DESCRSRC Idle - PA 3 - Loading Area

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 7.27E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440856.478, 3761185.898, 202.91, 3.66, 1.40

\*\* 441107.555, 3761186.787, 203.54, 3.66, 1.40

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LOCATION L0044334	VOLUME	440857.978	3761185.904	203.02
LOCATION L0044335	VOLUME	440860.978	3761185.914	203.08
LOCATION L0044336	VOLUME	440863.978	3761185.925	203.14
LOCATION L0044337	VOLUME	440866.978	3761185.936	203.20
LOCATION L0044338	VOLUME	440869.978	3761185.946	203.25
LOCATION L0044339	VOLUME	440872.978	3761185.957	203.31
LOCATION L0044340	VOLUME	440875.978	3761185.967	203.37
LOCATION L0044341	VOLUME	440878.978	3761185.978	203.45
LOCATION L0044342	VOLUME	440881.978	3761185.989	203.54
LOCATION L0044343	VOLUME	440884.978	3761185.999	203.62
LOCATION L0044344	VOLUME	440887.978	3761186.010	203.71
LOCATION L0044345	VOLUME	440890.978	3761186.021	203.80
LOCATION L0044346	VOLUME	440893.978	3761186.031	203.89



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LOCATION L0044347	VOLUME	440896.978	3761186.042	203.97
LOCATION L0044348	VOLUME	440899.978	3761186.052	204.06
LOCATION L0044349	VOLUME	440902.978	3761186.063	204.14
LOCATION L0044350	VOLUME	440905.978	3761186.074	204.19
LOCATION L0044351	VOLUME	440908.978	3761186.084	204.23
LOCATION L0044352	VOLUME	440911.978	3761186.095	204.28
LOCATION L0044353	VOLUME	440914.977	3761186.105	204.32
LOCATION L0044354	VOLUME	440917.977	3761186.116	204.37
LOCATION L0044355	VOLUME	440920.977	3761186.127	204.41
LOCATION L0044356	VOLUME	440923.977	3761186.137	204.46
LOCATION L0044357	VOLUME	440926.977	3761186.148	204.50
LOCATION L0044358	VOLUME	440929.977	3761186.159	204.53
LOCATION L0044359	VOLUME	440932.977	3761186.169	204.55
LOCATION L0044360	VOLUME	440935.977	3761186.180	204.57
LOCATION L0044361	VOLUME	440938.977	3761186.190	204.58
LOCATION L0044362	VOLUME	440941.977	3761186.201	204.60
LOCATION L0044363	VOLUME	440944.977	3761186.212	204.62
LOCATION L0044364	VOLUME	440947.977	3761186.222	204.63
LOCATION L0044365	VOLUME	440950.977	3761186.233	204.65
LOCATION L0044366	VOLUME	440953.977	3761186.243	204.67
LOCATION L0044367	VOLUME	440956.977	3761186.254	204.61
LOCATION L0044368	VOLUME	440959.977	3761186.265	204.56
LOCATION L0044369	VOLUME	440962.977	3761186.275	204.51
LOCATION L0044370	VOLUME	440965.977	3761186.286	204.45
LOCATION L0044371	VOLUME	440968.977	3761186.297	204.40
LOCATION L0044372	VOLUME	440971.977	3761186.307	204.35
LOCATION L0044373	VOLUME	440974.977	3761186.318	204.30
LOCATION L0044374	VOLUME	440977.977	3761186.328	204.24
LOCATION L0044375	VOLUME	440980.977	3761186.339	204.17
LOCATION L0044376	VOLUME	440983.977	3761186.350	204.08
LOCATION L0044377	VOLUME	440986.977	3761186.360	203.99
LOCATION L0044378	VOLUME	440989.977	3761186.371	203.90
LOCATION L0044379	VOLUME	440992.977	3761186.381	203.80
LOCATION L0044380	VOLUME	440995.977	3761186.392	203.71
LOCATION L0044381	VOLUME	440998.977	3761186.403	203.62
LOCATION L0044382	VOLUME	441001.977	3761186.413	203.53
LOCATION L0044383	VOLUME	441004.977	3761186.424	203.44
LOCATION L0044384	VOLUME	441007.977	3761186.435	203.42
LOCATION L0044385	VOLUME	441010.977	3761186.445	203.41
LOCATION L0044386	VOLUME	441013.977	3761186.456	203.40
LOCATION L0044387	VOLUME	441016.977	3761186.466	203.38
LOCATION L0044388	VOLUME	441019.977	3761186.477	203.37
LOCATION L0044389	VOLUME	441022.977	3761186.488	203.36
LOCATION L0044390	VOLUME	441025.977	3761186.498	203.35
LOCATION L0044391	VOLUME	441028.977	3761186.509	203.34
LOCATION L0044392	VOLUME	441031.977	3761186.519	203.34
LOCATION L0044393	VOLUME	441034.977	3761186.530	203.37
LOCATION L0044394	VOLUME	441037.977	3761186.541	203.40

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LOCATION L0044395	VOLUME	441040.977	3761186.551	203.42
LOCATION L0044396	VOLUME	441043.977	3761186.562	203.45
LOCATION L0044397	VOLUME	441046.977	3761186.573	203.48
LOCATION L0044398	VOLUME	441049.977	3761186.583	203.51
LOCATION L0044399	VOLUME	441052.977	3761186.594	203.53
LOCATION L0044400	VOLUME	441055.977	3761186.604	203.56
LOCATION L0044401	VOLUME	441058.977	3761186.615	203.59
LOCATION L0044402	VOLUME	441061.977	3761186.626	203.61
LOCATION L0044403	VOLUME	441064.977	3761186.636	203.64
LOCATION L0044404	VOLUME	441067.977	3761186.647	203.67
LOCATION L0044405	VOLUME	441070.977	3761186.657	203.69
LOCATION L0044406	VOLUME	441073.976	3761186.668	203.72
LOCATION L0044407	VOLUME	441076.976	3761186.679	203.75
LOCATION L0044408	VOLUME	441079.976	3761186.689	203.77
LOCATION L0044409	VOLUME	441082.976	3761186.700	203.78
LOCATION L0044410	VOLUME	441085.976	3761186.711	203.75
LOCATION L0044411	VOLUME	441088.976	3761186.721	203.72
LOCATION L0044412	VOLUME	441091.976	3761186.732	203.69
LOCATION L0044413	VOLUME	441094.976	3761186.742	203.66
LOCATION L0044414	VOLUME	441097.976	3761186.753	203.63
LOCATION L0044415	VOLUME	441100.976	3761186.764	203.60
LOCATION L0044416	VOLUME	441103.976	3761186.774	203.57
LOCATION L0044417	VOLUME	441106.976	3761186.785	203.54

\*\* End of LINE VOLUME Source ID = SLINE59

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE60

\*\* DESCRSRC Idle - PA 4 - Loading Area 1

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.49E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440885.116, 3761003.187, 201.61, 3.66, 1.40

\*\* 440885.116, 3760589.383, 198.46, 3.66, 1.40

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LOCATION L0044418	VOLUME	440885.116	3761001.687	201.75
LOCATION L0044419	VOLUME	440885.116	3760998.687	201.71
LOCATION L0044420	VOLUME	440885.116	3760995.687	201.68
LOCATION L0044421	VOLUME	440885.116	3760992.687	201.65
LOCATION L0044422	VOLUME	440885.116	3760989.687	201.61
LOCATION L0044423	VOLUME	440885.116	3760986.687	201.58
LOCATION L0044424	VOLUME	440885.116	3760983.687	201.55
LOCATION L0044425	VOLUME	440885.116	3760980.687	201.51
LOCATION L0044426	VOLUME	440885.116	3760977.687	201.48
LOCATION L0044427	VOLUME	440885.116	3760974.687	201.45

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LOCATION L0044428	VOLUME	440885.116	3760971.687	201.41
LOCATION L0044429	VOLUME	440885.116	3760968.687	201.39
LOCATION L0044430	VOLUME	440885.116	3760965.687	201.38
LOCATION L0044431	VOLUME	440885.116	3760962.687	201.36
LOCATION L0044432	VOLUME	440885.116	3760959.687	201.35
LOCATION L0044433	VOLUME	440885.116	3760956.687	201.34
LOCATION L0044434	VOLUME	440885.116	3760953.687	201.32
LOCATION L0044435	VOLUME	440885.116	3760950.687	201.31
LOCATION L0044436	VOLUME	440885.116	3760947.687	201.30
LOCATION L0044437	VOLUME	440885.116	3760944.687	201.28
LOCATION L0044438	VOLUME	440885.116	3760941.687	201.27
LOCATION L0044439	VOLUME	440885.116	3760938.687	201.25
LOCATION L0044440	VOLUME	440885.116	3760935.687	201.22
LOCATION L0044441	VOLUME	440885.116	3760932.687	201.19
LOCATION L0044442	VOLUME	440885.116	3760929.687	201.16
LOCATION L0044443	VOLUME	440885.116	3760926.687	201.13
LOCATION L0044444	VOLUME	440885.116	3760923.687	201.10
LOCATION L0044445	VOLUME	440885.116	3760920.687	201.07
LOCATION L0044446	VOLUME	440885.116	3760917.687	201.03
LOCATION L0044447	VOLUME	440885.116	3760914.687	201.00
LOCATION L0044448	VOLUME	440885.116	3760911.687	200.97
LOCATION L0044449	VOLUME	440885.116	3760908.687	200.94
LOCATION L0044450	VOLUME	440885.116	3760905.687	200.89
LOCATION L0044451	VOLUME	440885.116	3760902.687	200.83
LOCATION L0044452	VOLUME	440885.116	3760899.687	200.78
LOCATION L0044453	VOLUME	440885.116	3760896.687	200.73
LOCATION L0044454	VOLUME	440885.116	3760893.687	200.67
LOCATION L0044455	VOLUME	440885.116	3760890.687	200.62
LOCATION L0044456	VOLUME	440885.116	3760887.687	200.56
LOCATION L0044457	VOLUME	440885.116	3760884.687	200.51
LOCATION L0044458	VOLUME	440885.116	3760881.687	200.45
LOCATION L0044459	VOLUME	440885.116	3760878.687	200.40
LOCATION L0044460	VOLUME	440885.116	3760875.687	200.28
LOCATION L0044461	VOLUME	440885.116	3760872.687	200.13
LOCATION L0044462	VOLUME	440885.116	3760869.687	199.98
LOCATION L0044463	VOLUME	440885.116	3760866.687	199.83
LOCATION L0044464	VOLUME	440885.116	3760863.687	199.68
LOCATION L0044465	VOLUME	440885.116	3760860.687	199.53
LOCATION L0044466	VOLUME	440885.116	3760857.687	199.37
LOCATION L0044467	VOLUME	440885.116	3760854.687	199.22
LOCATION L0044468	VOLUME	440885.116	3760851.687	199.07
LOCATION L0044469	VOLUME	440885.116	3760848.687	198.92
LOCATION L0044470	VOLUME	440885.116	3760845.687	198.84
LOCATION L0044471	VOLUME	440885.116	3760842.687	198.88
LOCATION L0044472	VOLUME	440885.116	3760839.687	198.93
LOCATION L0044473	VOLUME	440885.116	3760836.687	198.98
LOCATION L0044474	VOLUME	440885.116	3760833.687	199.02
LOCATION L0044475	VOLUME	440885.116	3760830.687	199.07

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LOCATION L0044476	VOLUME	440885.116	3760827.687	199.12
LOCATION L0044477	VOLUME	440885.116	3760824.687	199.16
LOCATION L0044478	VOLUME	440885.116	3760821.687	199.21
LOCATION L0044479	VOLUME	440885.116	3760818.687	199.26
LOCATION L0044480	VOLUME	440885.116	3760815.687	199.30
LOCATION L0044481	VOLUME	440885.116	3760812.687	199.34
LOCATION L0044482	VOLUME	440885.116	3760809.687	199.38
LOCATION L0044483	VOLUME	440885.116	3760806.687	199.42
LOCATION L0044484	VOLUME	440885.116	3760803.687	199.46
LOCATION L0044485	VOLUME	440885.116	3760800.687	199.50
LOCATION L0044486	VOLUME	440885.116	3760797.687	199.55
LOCATION L0044487	VOLUME	440885.116	3760794.687	199.59
LOCATION L0044488	VOLUME	440885.116	3760791.687	199.63
LOCATION L0044489	VOLUME	440885.116	3760788.687	199.67
LOCATION L0044490	VOLUME	440885.116	3760785.687	199.71
LOCATION L0044491	VOLUME	440885.116	3760782.687	199.70
LOCATION L0044492	VOLUME	440885.116	3760779.687	199.68
LOCATION L0044493	VOLUME	440885.116	3760776.687	199.66
LOCATION L0044494	VOLUME	440885.116	3760773.687	199.64
LOCATION L0044495	VOLUME	440885.116	3760770.687	199.62
LOCATION L0044496	VOLUME	440885.116	3760767.687	199.60
LOCATION L0044497	VOLUME	440885.116	3760764.687	199.58
LOCATION L0044498	VOLUME	440885.116	3760761.687	199.56
LOCATION L0044499	VOLUME	440885.116	3760758.687	199.54
LOCATION L0044500	VOLUME	440885.116	3760755.687	199.52
LOCATION L0044501	VOLUME	440885.116	3760752.687	199.50
LOCATION L0044502	VOLUME	440885.116	3760749.687	199.48
LOCATION L0044503	VOLUME	440885.116	3760746.687	199.46
LOCATION L0044504	VOLUME	440885.116	3760743.687	199.44
LOCATION L0044505	VOLUME	440885.116	3760740.687	199.42
LOCATION L0044506	VOLUME	440885.116	3760737.687	199.39
LOCATION L0044507	VOLUME	440885.116	3760734.687	199.37
LOCATION L0044508	VOLUME	440885.116	3760731.687	199.35
LOCATION L0044509	VOLUME	440885.116	3760728.687	199.33
LOCATION L0044510	VOLUME	440885.116	3760725.687	199.31
LOCATION L0044511	VOLUME	440885.116	3760722.687	199.29
LOCATION L0044512	VOLUME	440885.116	3760719.687	199.27
LOCATION L0044513	VOLUME	440885.116	3760716.687	199.25
LOCATION L0044514	VOLUME	440885.116	3760713.687	199.23
LOCATION L0044515	VOLUME	440885.116	3760710.687	199.21
LOCATION L0044516	VOLUME	440885.116	3760707.687	199.19
LOCATION L0044517	VOLUME	440885.116	3760704.687	199.17
LOCATION L0044518	VOLUME	440885.116	3760701.687	199.15
LOCATION L0044519	VOLUME	440885.116	3760698.687	199.13
LOCATION L0044520	VOLUME	440885.116	3760695.687	199.11
LOCATION L0044521	VOLUME	440885.116	3760692.687	199.09
LOCATION L0044522	VOLUME	440885.116	3760689.687	199.07
LOCATION L0044523	VOLUME	440885.116	3760686.687	199.04

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LOCATION	VOLUME			
L0044524	440885.116	3760683.687	199.02	
L0044525	440885.116	3760680.687	198.99	
L0044526	440885.116	3760677.687	198.97	
L0044527	440885.116	3760674.687	198.95	
L0044528	440885.116	3760671.687	198.92	
L0044529	440885.116	3760668.687	198.90	
L0044530	440885.116	3760665.687	198.87	
L0044531	440885.116	3760662.687	198.85	
L0044532	440885.116	3760659.687	198.83	
L0044533	440885.116	3760656.687	198.80	
L0044534	440885.116	3760653.687	198.78	
L0044535	440885.116	3760650.687	198.76	
L0044536	440885.116	3760647.687	198.74	
L0044537	440885.116	3760644.687	198.71	
L0044538	440885.116	3760641.687	198.69	
L0044539	440885.116	3760638.687	198.67	
L0044540	440885.116	3760635.687	198.64	
L0044541	440885.116	3760632.687	198.62	
L0044542	440885.116	3760629.687	198.60	
L0044543	440885.116	3760626.687	198.57	
L0044544	440885.116	3760623.687	198.55	
L0044545	440885.116	3760620.687	198.53	
L0044546	440885.116	3760617.687	198.50	
L0044547	440885.116	3760614.687	198.48	
L0044548	440885.116	3760611.687	198.45	
L0044549	440885.116	3760608.687	198.43	
L0044550	440885.116	3760605.687	198.41	
L0044551	440885.116	3760602.687	198.38	
L0044552	440885.116	3760599.687	198.36	
L0044553	440885.116	3760596.687	198.33	
L0044554	440885.116	3760593.687	198.31	
L0044555	440885.116	3760590.687	198.29	

\*\* End of LINE VOLUME Source ID = SLINE60

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE61

\*\* DESCRSRC Idle - PA 4 - Loading Area 2

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.49E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441082.803, 3761001.529, 202.23, 3.66, 1.40

\*\* 441080.343, 3760587.051, 199.85, 3.66, 1.40

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LOCATION	L0044556	VOLUME	441082.794	3761000.029	202.24
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LOCATION L0044557	VOLUME	441082.776	3760997.029	202.21
LOCATION L0044558	VOLUME	441082.759	3760994.029	202.18
LOCATION L0044559	VOLUME	441082.741	3760991.029	202.15
LOCATION L0044560	VOLUME	441082.723	3760988.029	202.12
LOCATION L0044561	VOLUME	441082.705	3760985.029	202.09
LOCATION L0044562	VOLUME	441082.687	3760982.029	202.06
LOCATION L0044563	VOLUME	441082.670	3760979.029	202.03
LOCATION L0044564	VOLUME	441082.652	3760976.029	202.00
LOCATION L0044565	VOLUME	441082.634	3760973.029	201.97
LOCATION L0044566	VOLUME	441082.616	3760970.030	201.94
LOCATION L0044567	VOLUME	441082.598	3760967.030	201.91
LOCATION L0044568	VOLUME	441082.581	3760964.030	201.88
LOCATION L0044569	VOLUME	441082.563	3760961.030	201.85
LOCATION L0044570	VOLUME	441082.545	3760958.030	201.82
LOCATION L0044571	VOLUME	441082.527	3760955.030	201.79
LOCATION L0044572	VOLUME	441082.509	3760952.030	201.76
LOCATION L0044573	VOLUME	441082.492	3760949.030	201.73
LOCATION L0044574	VOLUME	441082.474	3760946.030	201.70
LOCATION L0044575	VOLUME	441082.456	3760943.030	201.67
LOCATION L0044576	VOLUME	441082.438	3760940.030	201.64
LOCATION L0044577	VOLUME	441082.420	3760937.030	201.61
LOCATION L0044578	VOLUME	441082.402	3760934.030	201.58
LOCATION L0044579	VOLUME	441082.385	3760931.030	201.55
LOCATION L0044580	VOLUME	441082.367	3760928.030	201.52
LOCATION L0044581	VOLUME	441082.349	3760925.030	201.49
LOCATION L0044582	VOLUME	441082.331	3760922.030	201.46
LOCATION L0044583	VOLUME	441082.313	3760919.030	201.43
LOCATION L0044584	VOLUME	441082.296	3760916.030	201.40
LOCATION L0044585	VOLUME	441082.278	3760913.031	201.37
LOCATION L0044586	VOLUME	441082.260	3760910.031	201.34
LOCATION L0044587	VOLUME	441082.242	3760907.031	201.31
LOCATION L0044588	VOLUME	441082.224	3760904.031	201.28
LOCATION L0044589	VOLUME	441082.207	3760901.031	201.26
LOCATION L0044590	VOLUME	441082.189	3760898.031	201.23
LOCATION L0044591	VOLUME	441082.171	3760895.031	201.21
LOCATION L0044592	VOLUME	441082.153	3760892.031	201.18
LOCATION L0044593	VOLUME	441082.135	3760889.031	201.16
LOCATION L0044594	VOLUME	441082.118	3760886.031	201.13
LOCATION L0044595	VOLUME	441082.100	3760883.031	201.11
LOCATION L0044596	VOLUME	441082.082	3760880.031	201.08
LOCATION L0044597	VOLUME	441082.064	3760877.031	201.06
LOCATION L0044598	VOLUME	441082.046	3760874.031	201.06
LOCATION L0044599	VOLUME	441082.029	3760871.031	201.07
LOCATION L0044600	VOLUME	441082.011	3760868.031	201.07
LOCATION L0044601	VOLUME	441081.993	3760865.031	201.08
LOCATION L0044602	VOLUME	441081.975	3760862.031	201.09
LOCATION L0044603	VOLUME	441081.957	3760859.031	201.10
LOCATION L0044604	VOLUME	441081.940	3760856.032	201.10

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LOCATION L0044605	VOLUME	441081.922	3760853.032	201.11
LOCATION L0044606	VOLUME	441081.904	3760850.032	201.12
LOCATION L0044607	VOLUME	441081.886	3760847.032	201.13
LOCATION L0044608	VOLUME	441081.868	3760844.032	201.12
LOCATION L0044609	VOLUME	441081.851	3760841.032	201.11
LOCATION L0044610	VOLUME	441081.833	3760838.032	201.09
LOCATION L0044611	VOLUME	441081.815	3760835.032	201.07
LOCATION L0044612	VOLUME	441081.797	3760832.032	201.06
LOCATION L0044613	VOLUME	441081.779	3760829.032	201.04
LOCATION L0044614	VOLUME	441081.762	3760826.032	201.02
LOCATION L0044615	VOLUME	441081.744	3760823.032	201.01
LOCATION L0044616	VOLUME	441081.726	3760820.032	200.99
LOCATION L0044617	VOLUME	441081.708	3760817.032	200.98
LOCATION L0044618	VOLUME	441081.690	3760814.032	200.96
LOCATION L0044619	VOLUME	441081.673	3760811.032	200.92
LOCATION L0044620	VOLUME	441081.655	3760808.032	200.89
LOCATION L0044621	VOLUME	441081.637	3760805.032	200.86
LOCATION L0044622	VOLUME	441081.619	3760802.032	200.83
LOCATION L0044623	VOLUME	441081.601	3760799.033	200.80
LOCATION L0044624	VOLUME	441081.584	3760796.033	200.77
LOCATION L0044625	VOLUME	441081.566	3760793.033	200.74
LOCATION L0044626	VOLUME	441081.548	3760790.033	200.71
LOCATION L0044627	VOLUME	441081.530	3760787.033	200.68
LOCATION L0044628	VOLUME	441081.512	3760784.033	200.65
LOCATION L0044629	VOLUME	441081.494	3760781.033	200.64
LOCATION L0044630	VOLUME	441081.477	3760778.033	200.63
LOCATION L0044631	VOLUME	441081.459	3760775.033	200.62
LOCATION L0044632	VOLUME	441081.441	3760772.033	200.61
LOCATION L0044633	VOLUME	441081.423	3760769.033	200.60
LOCATION L0044634	VOLUME	441081.405	3760766.033	200.59
LOCATION L0044635	VOLUME	441081.388	3760763.033	200.58
LOCATION L0044636	VOLUME	441081.370	3760760.033	200.57
LOCATION L0044637	VOLUME	441081.352	3760757.033	200.56
LOCATION L0044638	VOLUME	441081.334	3760754.033	200.55
LOCATION L0044639	VOLUME	441081.316	3760751.033	200.54
LOCATION L0044640	VOLUME	441081.299	3760748.033	200.54
LOCATION L0044641	VOLUME	441081.281	3760745.033	200.53
LOCATION L0044642	VOLUME	441081.263	3760742.034	200.53
LOCATION L0044643	VOLUME	441081.245	3760739.034	200.52
LOCATION L0044644	VOLUME	441081.227	3760736.034	200.52
LOCATION L0044645	VOLUME	441081.210	3760733.034	200.51
LOCATION L0044646	VOLUME	441081.192	3760730.034	200.51
LOCATION L0044647	VOLUME	441081.174	3760727.034	200.51
LOCATION L0044648	VOLUME	441081.156	3760724.034	200.50
LOCATION L0044649	VOLUME	441081.138	3760721.034	200.50
LOCATION L0044650	VOLUME	441081.121	3760718.034	200.49
LOCATION L0044651	VOLUME	441081.103	3760715.034	200.49
LOCATION L0044652	VOLUME	441081.085	3760712.034	200.48

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LOCATION	L0044653	VOLUME	441081.067	3760709.034	200.48
LOCATION	L0044654	VOLUME	441081.049	3760706.034	200.48
LOCATION	L0044655	VOLUME	441081.032	3760703.034	200.47
LOCATION	L0044656	VOLUME	441081.014	3760700.034	200.47
LOCATION	L0044657	VOLUME	441080.996	3760697.034	200.46
LOCATION	L0044658	VOLUME	441080.978	3760694.034	200.46
LOCATION	L0044659	VOLUME	441080.960	3760691.034	200.45
LOCATION	L0044660	VOLUME	441080.943	3760688.034	200.43
LOCATION	L0044661	VOLUME	441080.925	3760685.035	200.41
LOCATION	L0044662	VOLUME	441080.907	3760682.035	200.39
LOCATION	L0044663	VOLUME	441080.889	3760679.035	200.36
LOCATION	L0044664	VOLUME	441080.871	3760676.035	200.34
LOCATION	L0044665	VOLUME	441080.854	3760673.035	200.32
LOCATION	L0044666	VOLUME	441080.836	3760670.035	200.30
LOCATION	L0044667	VOLUME	441080.818	3760667.035	200.27
LOCATION	L0044668	VOLUME	441080.800	3760664.035	200.25
LOCATION	L0044669	VOLUME	441080.782	3760661.035	200.23
LOCATION	L0044670	VOLUME	441080.765	3760658.035	200.21
LOCATION	L0044671	VOLUME	441080.747	3760655.035	200.20
LOCATION	L0044672	VOLUME	441080.729	3760652.035	200.19
LOCATION	L0044673	VOLUME	441080.711	3760649.035	200.18
LOCATION	L0044674	VOLUME	441080.693	3760646.035	200.16
LOCATION	L0044675	VOLUME	441080.676	3760643.035	200.15
LOCATION	L0044676	VOLUME	441080.658	3760640.035	200.14
LOCATION	L0044677	VOLUME	441080.640	3760637.035	200.12
LOCATION	L0044678	VOLUME	441080.622	3760634.035	200.11
LOCATION	L0044679	VOLUME	441080.604	3760631.036	200.10
LOCATION	L0044680	VOLUME	441080.586	3760628.036	200.08
LOCATION	L0044681	VOLUME	441080.569	3760625.036	200.07
LOCATION	L0044682	VOLUME	441080.551	3760622.036	200.05
LOCATION	L0044683	VOLUME	441080.533	3760619.036	200.03
LOCATION	L0044684	VOLUME	441080.515	3760616.036	200.01
LOCATION	L0044685	VOLUME	441080.497	3760613.036	199.99
LOCATION	L0044686	VOLUME	441080.480	3760610.036	199.98
LOCATION	L0044687	VOLUME	441080.462	3760607.036	199.96
LOCATION	L0044688	VOLUME	441080.444	3760604.036	199.94
LOCATION	L0044689	VOLUME	441080.426	3760601.036	199.92
LOCATION	L0044690	VOLUME	441080.408	3760598.036	199.91
LOCATION	L0044691	VOLUME	441080.391	3760595.036	199.89
LOCATION	L0044692	VOLUME	441080.373	3760592.036	199.87
LOCATION	L0044693	VOLUME	441080.355	3760589.036	199.85

\*\* End of LINE VOLUME Source ID = SLINE61

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE62

\*\* DESCRSRC On-site Circulation - PA 3

\*\* PREFIX

\*\* Length of Side = 5.00



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** Configuration = Adjacent
** Emission Rate = 0.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 17
** 440815.901, 3761146.114, 202.24, 3.66, 2.33
** 440807.377, 3761171.981, 202.22, 3.66, 2.33
** 440815.421, 3761208.851, 203.03, 3.66, 2.33
** 440837.878, 3761224.604, 203.09, 3.66, 2.33
** 440883.128, 3761230.972, 203.85, 3.66, 2.33
** 440973.290, 3761232.648, 204.10, 3.66, 2.33
** 441051.052, 3761232.983, 203.73, 3.66, 2.33
** 441105.016, 3761231.978, 203.62, 3.66, 2.33
** 441124.456, 3761225.610, 203.58, 3.66, 2.33
** 441135.182, 3761206.504, 203.23, 3.66, 2.33
** 441134.846, 3761173.322, 203.05, 3.66, 2.33
** 441133.171, 3761153.546, 202.93, 3.66, 2.33
** 441118.423, 3761146.507, 203.41, 3.66, 2.33
** 441015.188, 3761145.837, 203.02, 3.66, 2.33
** 440875.754, 3761145.167, 202.86, 3.66, 2.33
** 440822.460, 3761145.167, 202.29, 3.66, 2.33
** 440814.754, 3761145.180, 202.22, 3.66, 2.33

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LOCATION L0035433    VOLUME  440815.119 3761148.488 202.24
LOCATION L0035434    VOLUME  440813.554 3761153.237 202.27
LOCATION L0035435    VOLUME  440811.989 3761157.986 202.30
LOCATION L0035436    VOLUME  440810.424 3761162.734 202.34
LOCATION L0035437    VOLUME  440808.859 3761167.483 202.38
LOCATION L0035438    VOLUME  440807.434 3761172.239 202.41
LOCATION L0035439    VOLUME  440808.499 3761177.124 202.48
LOCATION L0035440    VOLUME  440809.565 3761182.009 202.54
LOCATION L0035441    VOLUME  440810.631 3761186.895 202.60
LOCATION L0035442    VOLUME  440811.697 3761191.780 202.67
LOCATION L0035443    VOLUME  440812.763 3761196.665 202.73
LOCATION L0035444    VOLUME  440813.829 3761201.550 202.80
LOCATION L0035445    VOLUME  440814.894 3761206.435 202.86
LOCATION L0035446    VOLUME  440817.491 3761210.302 202.93
LOCATION L0035447    VOLUME  440821.584 3761213.173 202.99
LOCATION L0035448    VOLUME  440825.677 3761216.045 203.06
LOCATION L0035449    VOLUME  440829.770 3761218.916 203.12
LOCATION L0035450    VOLUME  440833.864 3761221.788 203.18
LOCATION L0035451    VOLUME  440837.973 3761224.617 203.24
LOCATION L0035452    VOLUME  440842.925 3761225.314 203.28
LOCATION L0035453    VOLUME  440847.876 3761226.011 203.31
LOCATION L0035454    VOLUME  440852.827 3761226.708 203.37
LOCATION L0035455    VOLUME  440857.778 3761227.405 203.47
LOCATION L0035456    VOLUME  440862.729 3761228.102 203.57
LOCATION L0035457    VOLUME  440867.681 3761228.798 203.67

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LOCATION L0035458	VOLUME	440872.632	3761229.495	203.77
LOCATION L0035459	VOLUME	440877.583	3761230.192	203.85
LOCATION L0035460	VOLUME	440882.534	3761230.889	203.89
LOCATION L0035461	VOLUME	440887.528	3761231.054	203.92
LOCATION L0035462	VOLUME	440892.527	3761231.147	203.96
LOCATION L0035463	VOLUME	440897.526	3761231.240	203.99
LOCATION L0035464	VOLUME	440902.525	3761231.333	204.03
LOCATION L0035465	VOLUME	440907.524	3761231.426	204.04
LOCATION L0035466	VOLUME	440912.523	3761231.519	204.05
LOCATION L0035467	VOLUME	440917.523	3761231.612	204.07
LOCATION L0035468	VOLUME	440922.522	3761231.705	204.08
LOCATION L0035469	VOLUME	440927.521	3761231.798	204.09
LOCATION L0035470	VOLUME	440932.520	3761231.890	204.11
LOCATION L0035471	VOLUME	440937.519	3761231.983	204.12
LOCATION L0035472	VOLUME	440942.518	3761232.076	204.14
LOCATION L0035473	VOLUME	440947.517	3761232.169	204.16
LOCATION L0035474	VOLUME	440952.516	3761232.262	204.17
LOCATION L0035475	VOLUME	440957.516	3761232.355	204.16
LOCATION L0035476	VOLUME	440962.515	3761232.448	204.14
LOCATION L0035477	VOLUME	440967.514	3761232.541	204.11
LOCATION L0035478	VOLUME	440972.513	3761232.634	204.09
LOCATION L0035479	VOLUME	440977.513	3761232.666	204.06
LOCATION L0035480	VOLUME	440982.513	3761232.688	204.02
LOCATION L0035481	VOLUME	440987.513	3761232.710	203.97
LOCATION L0035482	VOLUME	440992.513	3761232.731	203.92
LOCATION L0035483	VOLUME	440997.513	3761232.753	203.87
LOCATION L0035484	VOLUME	441002.513	3761232.774	203.82
LOCATION L0035485	VOLUME	441007.513	3761232.796	203.78
LOCATION L0035486	VOLUME	441012.513	3761232.817	203.76
LOCATION L0035487	VOLUME	441017.512	3761232.839	203.74
LOCATION L0035488	VOLUME	441022.512	3761232.860	203.72
LOCATION L0035489	VOLUME	441027.512	3761232.882	203.70
LOCATION L0035490	VOLUME	441032.512	3761232.904	203.69
LOCATION L0035491	VOLUME	441037.512	3761232.925	203.69
LOCATION L0035492	VOLUME	441042.512	3761232.947	203.69
LOCATION L0035493	VOLUME	441047.512	3761232.968	203.68
LOCATION L0035494	VOLUME	441052.512	3761232.956	203.68
LOCATION L0035495	VOLUME	441057.511	3761232.863	203.68
LOCATION L0035496	VOLUME	441062.510	3761232.770	203.69
LOCATION L0035497	VOLUME	441067.509	3761232.677	203.70
LOCATION L0035498	VOLUME	441072.508	3761232.584	203.70
LOCATION L0035499	VOLUME	441077.508	3761232.490	203.71
LOCATION L0035500	VOLUME	441082.507	3761232.397	203.72
LOCATION L0035501	VOLUME	441087.506	3761232.304	203.69
LOCATION L0035502	VOLUME	441092.505	3761232.211	203.66
LOCATION L0035503	VOLUME	441097.504	3761232.118	203.64
LOCATION L0035504	VOLUME	441102.503	3761232.025	203.61
LOCATION L0035505	VOLUME	441107.379	3761231.204	203.58

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LOCATION L0035506	VOLUME	441112.131	3761229.647	203.54
LOCATION L0035507	VOLUME	441116.882	3761228.091	203.50
LOCATION L0035508	VOLUME	441121.634	3761226.534	203.46
LOCATION L0035509	VOLUME	441125.450	3761223.839	203.40
LOCATION L0035510	VOLUME	441127.898	3761219.479	203.33
LOCATION L0035511	VOLUME	441130.345	3761215.119	203.26
LOCATION L0035512	VOLUME	441132.793	3761210.759	203.22
LOCATION L0035513	VOLUME	441135.180	3761206.384	203.19
LOCATION L0035514	VOLUME	441135.130	3761201.384	203.17
LOCATION L0035515	VOLUME	441135.079	3761196.384	203.14
LOCATION L0035516	VOLUME	441135.029	3761191.385	203.11
LOCATION L0035517	VOLUME	441134.978	3761186.385	203.09
LOCATION L0035518	VOLUME	441134.928	3761181.385	203.06
LOCATION L0035519	VOLUME	441134.877	3761176.385	203.04
LOCATION L0035520	VOLUME	441134.683	3761171.393	203.01
LOCATION L0035521	VOLUME	441134.261	3761166.410	202.99
LOCATION L0035522	VOLUME	441133.838	3761161.428	202.97
LOCATION L0035523	VOLUME	441133.416	3761156.446	202.94
LOCATION L0035524	VOLUME	441131.285	3761152.646	202.97
LOCATION L0035525	VOLUME	441126.772	3761150.492	203.05
LOCATION L0035526	VOLUME	441122.260	3761148.339	203.12
LOCATION L0035527	VOLUME	441117.674	3761146.503	203.20
LOCATION L0035528	VOLUME	441112.675	3761146.470	203.30
LOCATION L0035529	VOLUME	441107.675	3761146.438	203.40
LOCATION L0035530	VOLUME	441102.675	3761146.405	203.43
LOCATION L0035531	VOLUME	441097.675	3761146.373	203.46
LOCATION L0035532	VOLUME	441092.675	3761146.340	203.48
LOCATION L0035533	VOLUME	441087.675	3761146.308	203.51
LOCATION L0035534	VOLUME	441082.675	3761146.275	203.54
LOCATION L0035535	VOLUME	441077.675	3761146.243	203.51
LOCATION L0035536	VOLUME	441072.675	3761146.210	203.48
LOCATION L0035537	VOLUME	441067.676	3761146.178	203.44
LOCATION L0035538	VOLUME	441062.676	3761146.145	203.41
LOCATION L0035539	VOLUME	441057.676	3761146.113	203.37
LOCATION L0035540	VOLUME	441052.676	3761146.081	203.31
LOCATION L0035541	VOLUME	441047.676	3761146.048	203.23
LOCATION L0035542	VOLUME	441042.676	3761146.016	203.15
LOCATION L0035543	VOLUME	441037.676	3761145.983	203.07
LOCATION L0035544	VOLUME	441032.676	3761145.951	203.00
LOCATION L0035545	VOLUME	441027.676	3761145.918	202.97
LOCATION L0035546	VOLUME	441022.676	3761145.886	202.97
LOCATION L0035547	VOLUME	441017.677	3761145.853	202.98
LOCATION L0035548	VOLUME	441012.677	3761145.825	202.99
LOCATION L0035549	VOLUME	441007.677	3761145.801	202.99
LOCATION L0035550	VOLUME	441002.677	3761145.777	203.08
LOCATION L0035551	VOLUME	440997.677	3761145.753	203.26
LOCATION L0035552	VOLUME	440992.677	3761145.729	203.45
LOCATION L0035553	VOLUME	440987.677	3761145.705	203.63

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LOCATION	VOLUME			
L0035554	440982.677	3761145.681	203.82	
L0035555	440977.677	3761145.657	203.97	
L0035556	440972.677	3761145.633	204.06	
L0035557	440967.677	3761145.609	204.15	
L0035558	440962.677	3761145.585	204.23	
L0035559	440957.677	3761145.561	204.32	
L0035560	440952.677	3761145.537	204.39	
L0035561	440947.677	3761145.513	204.38	
L0035562	440942.677	3761145.488	204.37	
L0035563	440937.678	3761145.464	204.36	
L0035564	440932.678	3761145.440	204.35	
L0035565	440927.678	3761145.416	204.33	
L0035566	440922.678	3761145.392	204.23	
L0035567	440917.678	3761145.368	204.12	
L0035568	440912.678	3761145.344	204.01	
L0035569	440907.678	3761145.320	203.90	
L0035570	440902.678	3761145.296	203.79	
L0035571	440897.678	3761145.272	203.61	
L0035572	440892.678	3761145.248	203.42	
L0035573	440887.678	3761145.224	203.23	
L0035574	440882.678	3761145.200	203.04	
L0035575	440877.678	3761145.176	202.85	
L0035576	440872.678	3761145.167	202.76	
L0035577	440867.678	3761145.167	202.71	
L0035578	440862.678	3761145.167	202.65	
L0035579	440857.678	3761145.167	202.59	
L0035580	440852.678	3761145.167	202.54	
L0035581	440847.678	3761145.167	202.49	
L0035582	440842.678	3761145.167	202.46	
L0035583	440837.678	3761145.167	202.42	
L0035584	440832.678	3761145.167	202.38	
L0035585	440827.678	3761145.167	202.35	
L0035586	440822.678	3761145.167	202.30	
L0035587	440817.678	3761145.175	202.24	

\*\* End of LINE VOLUME Source ID = SLINE62

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE64

\*\* DESCRSRC Idle - PA 5 - Loading Area

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.33E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441654.567, 3760562.471, 200.39, 3.66, 1.40

\*\* 441880.436, 3760562.471, 200.18, 3.66, 1.40

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LOCATION L0044694    VOLUME  441656.067 3760562.471 200.40  
LOCATION L0044695    VOLUME  441659.067 3760562.471 200.40  
LOCATION L0044696    VOLUME  441662.067 3760562.471 200.40  
LOCATION L0044697    VOLUME  441665.067 3760562.471 200.40  
LOCATION L0044698    VOLUME  441668.067 3760562.471 200.40  
LOCATION L0044699    VOLUME  441671.067 3760562.471 200.41  
LOCATION L0044700    VOLUME  441674.067 3760562.471 200.41  
LOCATION L0044701    VOLUME  441677.067 3760562.471 200.42  
LOCATION L0044702    VOLUME  441680.067 3760562.471 200.43  
LOCATION L0044703    VOLUME  441683.067 3760562.471 200.44  
LOCATION L0044704    VOLUME  441686.067 3760562.471 200.45  
LOCATION L0044705    VOLUME  441689.067 3760562.471 200.45  
LOCATION L0044706    VOLUME  441692.067 3760562.471 200.46  
LOCATION L0044707    VOLUME  441695.067 3760562.471 200.47  
LOCATION L0044708    VOLUME  441698.067 3760562.471 200.47  
LOCATION L0044709    VOLUME  441701.067 3760562.471 200.47  
LOCATION L0044710    VOLUME  441704.067 3760562.471 200.47  
LOCATION L0044711    VOLUME  441707.067 3760562.471 200.47  
LOCATION L0044712    VOLUME  441710.067 3760562.471 200.47  
LOCATION L0044713    VOLUME  441713.067 3760562.471 200.47  
LOCATION L0044714    VOLUME  441716.067 3760562.471 200.47  
LOCATION L0044715    VOLUME  441719.067 3760562.471 200.47  
LOCATION L0044716    VOLUME  441722.067 3760562.471 200.46  
LOCATION L0044717    VOLUME  441725.067 3760562.471 200.46  
LOCATION L0044718    VOLUME  441728.067 3760562.471 200.45  
LOCATION L0044719    VOLUME  441731.067 3760562.471 200.44  
LOCATION L0044720    VOLUME  441734.067 3760562.471 200.43  
LOCATION L0044721    VOLUME  441737.067 3760562.471 200.42  
LOCATION L0044722    VOLUME  441740.067 3760562.471 200.41  
LOCATION L0044723    VOLUME  441743.067 3760562.471 200.40  
LOCATION L0044724    VOLUME  441746.067 3760562.471 200.39  
LOCATION L0044725    VOLUME  441749.067 3760562.471 200.39  
LOCATION L0044726    VOLUME  441752.067 3760562.471 200.38  
LOCATION L0044727    VOLUME  441755.067 3760562.471 200.38  
LOCATION L0044728    VOLUME  441758.067 3760562.471 200.37  
LOCATION L0044729    VOLUME  441761.067 3760562.471 200.37  
LOCATION L0044730    VOLUME  441764.067 3760562.471 200.36  
LOCATION L0044731    VOLUME  441767.067 3760562.471 200.36  
LOCATION L0044732    VOLUME  441770.067 3760562.471 200.35  
LOCATION L0044733    VOLUME  441773.067 3760562.471 200.35  
LOCATION L0044734    VOLUME  441776.067 3760562.471 200.34  
LOCATION L0044735    VOLUME  441779.067 3760562.471 200.33  
LOCATION L0044736    VOLUME  441782.067 3760562.471 200.33  
LOCATION L0044737    VOLUME  441785.067 3760562.471 200.32  
LOCATION L0044738    VOLUME  441788.067 3760562.471 200.31  
LOCATION L0044739    VOLUME  441791.067 3760562.471 200.31  
LOCATION L0044740    VOLUME  441794.067 3760562.471 200.30
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LOCATION L0044741	VOLUME	441797.067	3760562.471	200.30
LOCATION L0044742	VOLUME	441800.067	3760562.471	200.29
LOCATION L0044743	VOLUME	441803.067	3760562.471	200.28
LOCATION L0044744	VOLUME	441806.067	3760562.471	200.27
LOCATION L0044745	VOLUME	441809.067	3760562.471	200.26
LOCATION L0044746	VOLUME	441812.067	3760562.471	200.25
LOCATION L0044747	VOLUME	441815.067	3760562.471	200.24
LOCATION L0044748	VOLUME	441818.067	3760562.471	200.23
LOCATION L0044749	VOLUME	441821.067	3760562.471	200.22
LOCATION L0044750	VOLUME	441824.067	3760562.471	200.21
LOCATION L0044751	VOLUME	441827.067	3760562.471	200.21
LOCATION L0044752	VOLUME	441830.067	3760562.471	200.20
LOCATION L0044753	VOLUME	441833.067	3760562.471	200.20
LOCATION L0044754	VOLUME	441836.067	3760562.471	200.20
LOCATION L0044755	VOLUME	441839.067	3760562.471	200.20
LOCATION L0044756	VOLUME	441842.067	3760562.471	200.19
LOCATION L0044757	VOLUME	441845.067	3760562.471	200.19
LOCATION L0044758	VOLUME	441848.067	3760562.471	200.19
LOCATION L0044759	VOLUME	441851.067	3760562.471	200.18
LOCATION L0044760	VOLUME	441854.067	3760562.471	200.18
LOCATION L0044761	VOLUME	441857.067	3760562.471	200.18
LOCATION L0044762	VOLUME	441860.067	3760562.471	200.17
LOCATION L0044763	VOLUME	441863.067	3760562.471	200.17
LOCATION L0044764	VOLUME	441866.067	3760562.471	200.17
LOCATION L0044765	VOLUME	441869.067	3760562.471	200.17
LOCATION L0044766	VOLUME	441872.067	3760562.471	200.16
LOCATION L0044767	VOLUME	441875.067	3760562.471	200.16
LOCATION L0044768	VOLUME	441878.067	3760562.471	200.17

\*\* End of LINE VOLUME Source ID = SLINE64

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE65

\*\* DESCRSRC On-site Circulation - PA 5

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.54E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 18

\*\* 441747.999, 3760499.263, 200.02, 3.66, 2.33

\*\* 441818.029, 3760505.031, 199.91, 3.66, 2.33

\*\* 441908.743, 3760515.147, 200.08, 3.66, 2.33

\*\* 441930.976, 3760531.154, 200.24, 3.66, 2.33

\*\* 441936.312, 3760555.165, 200.55, 3.66, 2.33

\*\* 441933.644, 3760588.069, 200.72, 3.66, 2.33

\*\* 441916.747, 3760606.745, 200.80, 3.66, 2.33

\*\* 441890.068, 3760617.417, 201.01, 3.66, 2.33

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\*\* 441839.378, 3760622.752, 201.07, 3.66, 2.33  
 \*\* 441754.004, 3760620.974, 201.05, 3.66, 2.33  
 \*\* 441665.963, 3760619.195, 200.91, 3.66, 2.33  
 \*\* 441615.273, 3760608.523, 200.64, 3.66, 2.33  
 \*\* 441601.044, 3760581.844, 200.44, 3.66, 2.33  
 \*\* 441596.597, 3760554.276, 200.15, 3.66, 2.33  
 \*\* 441605.491, 3760530.265, 200.05, 3.66, 2.33  
 \*\* 441629.502, 3760514.257, 200.19, 3.66, 2.33  
 \*\* 441671.299, 3760500.918, 200.12, 3.66, 2.33  
 \*\* 441744.735, 3760499.598, 200.01, 3.66, 2.33

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LOCATION	L0044769	VOLUME	441750.490	3760499.469	200.02
LOCATION	L0044770	VOLUME	441755.473	3760499.879	200.02
LOCATION	L0044771	VOLUME	441760.456	3760500.289	200.02
LOCATION	L0044772	VOLUME	441765.440	3760500.700	200.02
LOCATION	L0044773	VOLUME	441770.423	3760501.110	200.02
LOCATION	L0044774	VOLUME	441775.406	3760501.521	200.01
LOCATION	L0044775	VOLUME	441780.389	3760501.931	200.01
LOCATION	L0044776	VOLUME	441785.372	3760502.341	200.01
LOCATION	L0044777	VOLUME	441790.355	3760502.752	200.01
LOCATION	L0044778	VOLUME	441795.338	3760503.162	200.01
LOCATION	L0044779	VOLUME	441800.321	3760503.572	199.99
LOCATION	L0044780	VOLUME	441805.305	3760503.983	199.97
LOCATION	L0044781	VOLUME	441810.288	3760504.393	199.96
LOCATION	L0044782	VOLUME	441815.271	3760504.804	199.94
LOCATION	L0044783	VOLUME	441820.248	3760505.278	199.92
LOCATION	L0044784	VOLUME	441825.217	3760505.832	199.91
LOCATION	L0044785	VOLUME	441830.186	3760506.386	199.91
LOCATION	L0044786	VOLUME	441835.155	3760506.940	199.92
LOCATION	L0044787	VOLUME	441840.125	3760507.495	199.92
LOCATION	L0044788	VOLUME	441845.094	3760508.049	199.92
LOCATION	L0044789	VOLUME	441850.063	3760508.603	199.92
LOCATION	L0044790	VOLUME	441855.032	3760509.157	199.93
LOCATION	L0044791	VOLUME	441860.001	3760509.711	199.93
LOCATION	L0044792	VOLUME	441864.971	3760510.265	199.94
LOCATION	L0044793	VOLUME	441869.940	3760510.819	199.94
LOCATION	L0044794	VOLUME	441874.909	3760511.374	199.95
LOCATION	L0044795	VOLUME	441879.878	3760511.928	199.95
LOCATION	L0044796	VOLUME	441884.847	3760512.482	199.96
LOCATION	L0044797	VOLUME	441889.817	3760513.036	199.97
LOCATION	L0044798	VOLUME	441894.786	3760513.590	199.98
LOCATION	L0044799	VOLUME	441899.755	3760514.144	199.99
LOCATION	L0044800	VOLUME	441904.724	3760514.698	200.02
LOCATION	L0044801	VOLUME	441909.519	3760515.705	200.05
LOCATION	L0044802	VOLUME	441913.577	3760518.627	200.08
LOCATION	L0044803	VOLUME	441917.634	3760521.548	200.12
LOCATION	L0044804	VOLUME	441921.692	3760524.470	200.15
LOCATION	L0044805	VOLUME	441925.750	3760527.391	200.19

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LOCATION L0044806	VOLUME	441929.807	3760530.313	200.25
LOCATION L0044807	VOLUME	441931.748	3760534.629	200.29
LOCATION L0044808	VOLUME	441932.833	3760539.510	200.34
LOCATION L0044809	VOLUME	441933.918	3760544.391	200.38
LOCATION L0044810	VOLUME	441935.002	3760549.272	200.43
LOCATION L0044811	VOLUME	441936.087	3760554.153	200.47
LOCATION L0044812	VOLUME	441935.992	3760559.115	200.50
LOCATION L0044813	VOLUME	441935.587	3760564.099	200.53
LOCATION L0044814	VOLUME	441935.183	3760569.083	200.57
LOCATION L0044815	VOLUME	441934.779	3760574.066	200.60
LOCATION L0044816	VOLUME	441934.375	3760579.050	200.63
LOCATION L0044817	VOLUME	441933.971	3760584.034	200.67
LOCATION L0044818	VOLUME	441933.006	3760588.775	200.70
LOCATION L0044819	VOLUME	441929.651	3760592.482	200.71
LOCATION L0044820	VOLUME	441926.297	3760596.190	200.74
LOCATION L0044821	VOLUME	441922.942	3760599.898	200.77
LOCATION L0044822	VOLUME	441919.588	3760603.605	200.81
LOCATION L0044823	VOLUME	441916.036	3760607.029	200.84
LOCATION L0044824	VOLUME	441911.393	3760608.886	200.86
LOCATION L0044825	VOLUME	441906.751	3760610.743	200.88
LOCATION L0044826	VOLUME	441902.109	3760612.600	200.91
LOCATION L0044827	VOLUME	441897.466	3760614.457	200.94
LOCATION L0044828	VOLUME	441892.824	3760616.314	200.97
LOCATION L0044829	VOLUME	441888.047	3760617.629	200.99
LOCATION L0044830	VOLUME	441883.075	3760618.153	200.99
LOCATION L0044831	VOLUME	441878.102	3760618.676	201.00
LOCATION L0044832	VOLUME	441873.130	3760619.200	201.00
LOCATION L0044833	VOLUME	441868.157	3760619.723	201.01
LOCATION L0044834	VOLUME	441863.185	3760620.246	201.02
LOCATION L0044835	VOLUME	441858.212	3760620.770	201.04
LOCATION L0044836	VOLUME	441853.240	3760621.293	201.05
LOCATION L0044837	VOLUME	441848.267	3760621.817	201.06
LOCATION L0044838	VOLUME	441843.295	3760622.340	201.08
LOCATION L0044839	VOLUME	441838.317	3760622.730	201.10
LOCATION L0044840	VOLUME	441833.318	3760622.626	201.11
LOCATION L0044841	VOLUME	441828.319	3760622.522	201.12
LOCATION L0044842	VOLUME	441823.320	3760622.418	201.13
LOCATION L0044843	VOLUME	441818.321	3760622.314	201.13
LOCATION L0044844	VOLUME	441813.322	3760622.210	201.14
LOCATION L0044845	VOLUME	441808.323	3760622.105	201.14
LOCATION L0044846	VOLUME	441803.324	3760622.001	201.15
LOCATION L0044847	VOLUME	441798.325	3760621.897	201.15
LOCATION L0044848	VOLUME	441793.326	3760621.793	201.15
LOCATION L0044849	VOLUME	441788.327	3760621.689	201.14
LOCATION L0044850	VOLUME	441783.328	3760621.585	201.13
LOCATION L0044851	VOLUME	441778.330	3760621.481	201.12
LOCATION L0044852	VOLUME	441773.331	3760621.376	201.11
LOCATION L0044853	VOLUME	441768.332	3760621.272	201.11



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LOCATION L0044854	VOLUME	441763.333	3760621.168	201.12
LOCATION L0044855	VOLUME	441758.334	3760621.064	201.12
LOCATION L0044856	VOLUME	441753.335	3760620.960	201.13
LOCATION L0044857	VOLUME	441748.336	3760620.859	201.13
LOCATION L0044858	VOLUME	441743.337	3760620.758	201.13
LOCATION L0044859	VOLUME	441738.338	3760620.657	201.11
LOCATION L0044860	VOLUME	441733.339	3760620.556	201.10
LOCATION L0044861	VOLUME	441728.340	3760620.455	201.09
LOCATION L0044862	VOLUME	441723.341	3760620.354	201.07
LOCATION L0044863	VOLUME	441718.342	3760620.253	201.06
LOCATION L0044864	VOLUME	441713.343	3760620.152	201.06
LOCATION L0044865	VOLUME	441708.344	3760620.051	201.06
LOCATION L0044866	VOLUME	441703.345	3760619.950	201.06
LOCATION L0044867	VOLUME	441698.346	3760619.849	201.06
LOCATION L0044868	VOLUME	441693.347	3760619.748	201.06
LOCATION L0044869	VOLUME	441688.348	3760619.647	201.02
LOCATION L0044870	VOLUME	441683.349	3760619.546	200.99
LOCATION L0044871	VOLUME	441678.350	3760619.445	200.96
LOCATION L0044872	VOLUME	441673.351	3760619.344	200.92
LOCATION L0044873	VOLUME	441668.352	3760619.243	200.89
LOCATION L0044874	VOLUME	441663.409	3760618.657	200.87
LOCATION L0044875	VOLUME	441658.516	3760617.627	200.84
LOCATION L0044876	VOLUME	441653.623	3760616.597	200.82
LOCATION L0044877	VOLUME	441648.731	3760615.567	200.80
LOCATION L0044878	VOLUME	441643.838	3760614.537	200.78
LOCATION L0044879	VOLUME	441638.945	3760613.507	200.77
LOCATION L0044880	VOLUME	441634.052	3760612.477	200.75
LOCATION L0044881	VOLUME	441629.160	3760611.447	200.74
LOCATION L0044882	VOLUME	441624.267	3760610.417	200.73
LOCATION L0044883	VOLUME	441619.374	3760609.387	200.71
LOCATION L0044884	VOLUME	441614.892	3760607.810	200.68
LOCATION L0044885	VOLUME	441612.539	3760603.398	200.63
LOCATION L0044886	VOLUME	441610.186	3760598.986	200.59
LOCATION L0044887	VOLUME	441607.833	3760594.574	200.53
LOCATION L0044888	VOLUME	441605.480	3760590.163	200.47
LOCATION L0044889	VOLUME	441603.127	3760585.751	200.41
LOCATION L0044890	VOLUME	441600.953	3760581.279	200.36
LOCATION L0044891	VOLUME	441600.157	3760576.343	200.31
LOCATION L0044892	VOLUME	441599.360	3760571.407	200.27
LOCATION L0044893	VOLUME	441598.564	3760566.470	200.22
LOCATION L0044894	VOLUME	441597.768	3760561.534	200.19
LOCATION L0044895	VOLUME	441596.972	3760556.598	200.16
LOCATION L0044896	VOLUME	441597.517	3760551.793	200.13
LOCATION L0044897	VOLUME	441599.254	3760547.104	200.10
LOCATION L0044898	VOLUME	441600.990	3760542.415	200.08
LOCATION L0044899	VOLUME	441602.727	3760537.727	200.05
LOCATION L0044900	VOLUME	441604.463	3760533.038	200.03
LOCATION L0044901	VOLUME	441607.190	3760529.132	200.03

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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0044902	441611.350	3760526.358	200.03	
L0044903	441615.511	3760523.585	200.05	
L0044904	441619.671	3760520.811	200.08	
L0044905	441623.831	3760518.038	200.12	
L0044906	441627.991	3760515.264	200.15	
L0044907	441632.536	3760513.289	200.19	
L0044908	441637.299	3760511.769	200.23	
L0044909	441642.062	3760510.249	200.26	
L0044910	441646.826	3760508.728	200.24	
L0044911	441651.589	3760507.208	200.21	
L0044912	441656.352	3760505.688	200.18	
L0044913	441661.116	3760504.168	200.16	
L0044914	441665.879	3760502.647	200.13	
L0044915	441670.642	3760501.127	200.12	
L0044916	441675.609	3760500.840	200.12	
L0044917	441680.608	3760500.750	200.11	
L0044918	441685.607	3760500.661	200.11	
L0044919	441690.606	3760500.571	200.10	
L0044920	441695.606	3760500.481	200.10	
L0044921	441700.605	3760500.391	200.09	
L0044922	441705.604	3760500.301	200.09	
L0044923	441710.603	3760500.212	200.09	
L0044924	441715.602	3760500.122	200.08	
L0044925	441720.602	3760500.032	200.08	
L0044926	441725.601	3760499.942	200.07	
L0044927	441730.600	3760499.852	200.05	
L0044928	441735.599	3760499.762	200.04	
L0044929	441740.598	3760499.673	200.03	

\*\* End of LINE VOLUME Source ID = SLINE65

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE66

\*\* DESCRSRC Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.27E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441961.845, 3760855.880, 202.79, 3.66, 2.33

\*\* 441996.400, 3760855.761, 202.59, 3.66, 2.33

\*\*

LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0044930	441964.345	3760855.871	202.70	
L0044931	441969.345	3760855.854	202.65	
L0044932	441974.345	3760855.837	202.61	
L0044933	441979.345	3760855.819	202.57	
L0044934	441984.345	3760855.802	202.55	

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LOCATION L0044935      VOLUME    441989.344 3760855.785 202.52  
 LOCATION L0044936      VOLUME    441994.344 3760855.768 202.50

\*\* End of LINE VOLUME Source ID = SLINE66

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE67

\*\* DESCRSRC On-site Circulation - PA 4 Loading Area 2

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.51E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 12

- \*\* 440990.332, 3760508.461, 198.63, 3.66, 2.33
- \*\* 441030.342, 3760512.969, 199.06, 3.66, 2.33
- \*\* 441085.567, 3760528.184, 199.47, 3.66, 2.33
- \*\* 441126.140, 3760559.178, 199.68, 3.66, 2.33
- \*\* 441136.284, 3760602.569, 199.98, 3.66, 2.33
- \*\* 441137.974, 3760793.602, 200.66, 3.66, 2.33
- \*\* 441135.720, 3760914.196, 201.57, 3.66, 2.33
- \*\* 441134.839, 3761006.537, 202.09, 3.66, 2.33
- \*\* 441130.939, 3761036.958, 202.34, 3.66, 2.33
- \*\* 441101.299, 3761059.578, 202.84, 3.66, 2.33
- \*\* 441066.979, 3761063.478, 202.68, 3.66, 2.33
- \*\* 440988.242, 3761064.373, 202.75, 3.66, 2.33

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LOCATION L0044937      VOLUME    440992.816 3760508.741 198.72  
 LOCATION L0044938      VOLUME    440997.785 3760509.301 198.88  
 LOCATION L0044939      VOLUME    441002.753 3760509.861 199.00  
 LOCATION L0044940      VOLUME    441007.722 3760510.421 199.04  
 LOCATION L0044941      VOLUME    441012.690 3760510.980 199.09  
 LOCATION L0044942      VOLUME    441017.659 3760511.540 199.14  
 LOCATION L0044943      VOLUME    441022.628 3760512.100 199.18  
 LOCATION L0044944      VOLUME    441027.596 3760512.660 199.22  
 LOCATION L0044945      VOLUME    441032.498 3760513.563 199.23  
 LOCATION L0044946      VOLUME    441037.319 3760514.892 199.26  
 LOCATION L0044947      VOLUME    441042.139 3760516.220 199.28  
 LOCATION L0044948      VOLUME    441046.960 3760517.548 199.31  
 LOCATION L0044949      VOLUME    441051.780 3760518.876 199.33  
 LOCATION L0044950      VOLUME    441056.600 3760520.204 199.35  
 LOCATION L0044951      VOLUME    441061.421 3760521.532 199.37  
 LOCATION L0044952      VOLUME    441066.241 3760522.860 199.38  
 LOCATION L0044953      VOLUME    441071.062 3760524.188 199.39  
 LOCATION L0044954      VOLUME    441075.882 3760525.516 199.40  
 LOCATION L0044955      VOLUME    441080.702 3760526.844 199.41  
 LOCATION L0044956      VOLUME    441085.523 3760528.172 199.41  
 LOCATION L0044957      VOLUME    441089.504 3760531.192 199.43

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LOCATION L0044958	VOLUME	441093.477	3760534.227	199.43
LOCATION L0044959	VOLUME	441097.451	3760537.262	199.42
LOCATION L0044960	VOLUME	441101.424	3760540.297	199.42
LOCATION L0044961	VOLUME	441105.397	3760543.333	199.43
LOCATION L0044962	VOLUME	441109.371	3760546.368	199.46
LOCATION L0044963	VOLUME	441113.344	3760549.403	199.50
LOCATION L0044964	VOLUME	441117.317	3760552.438	199.54
LOCATION L0044965	VOLUME	441121.291	3760555.473	199.58
LOCATION L0044966	VOLUME	441125.264	3760558.509	199.62
LOCATION L0044967	VOLUME	441127.027	3760562.973	199.66
LOCATION L0044968	VOLUME	441128.166	3760567.842	199.71
LOCATION L0044969	VOLUME	441129.304	3760572.711	199.75
LOCATION L0044970	VOLUME	441130.442	3760577.579	199.80
LOCATION L0044971	VOLUME	441131.580	3760582.448	199.85
LOCATION L0044972	VOLUME	441132.718	3760587.317	199.89
LOCATION L0044973	VOLUME	441133.856	3760592.185	199.94
LOCATION L0044974	VOLUME	441134.994	3760597.054	199.99
LOCATION L0044975	VOLUME	441136.133	3760601.923	200.04
LOCATION L0044976	VOLUME	441136.322	3760606.905	200.09
LOCATION L0044977	VOLUME	441136.366	3760611.905	200.14
LOCATION L0044978	VOLUME	441136.410	3760616.905	200.19
LOCATION L0044979	VOLUME	441136.455	3760621.905	200.24
LOCATION L0044980	VOLUME	441136.499	3760626.905	200.30
LOCATION L0044981	VOLUME	441136.543	3760631.904	200.33
LOCATION L0044982	VOLUME	441136.587	3760636.904	200.35
LOCATION L0044983	VOLUME	441136.632	3760641.904	200.37
LOCATION L0044984	VOLUME	441136.676	3760646.904	200.38
LOCATION L0044985	VOLUME	441136.720	3760651.904	200.40
LOCATION L0044986	VOLUME	441136.764	3760656.903	200.42
LOCATION L0044987	VOLUME	441136.809	3760661.903	200.45
LOCATION L0044988	VOLUME	441136.853	3760666.903	200.50
LOCATION L0044989	VOLUME	441136.897	3760671.903	200.56
LOCATION L0044990	VOLUME	441136.941	3760676.903	200.61
LOCATION L0044991	VOLUME	441136.986	3760681.902	200.67
LOCATION L0044992	VOLUME	441137.030	3760686.902	200.72
LOCATION L0044993	VOLUME	441137.074	3760691.902	200.77
LOCATION L0044994	VOLUME	441137.118	3760696.902	200.74
LOCATION L0044995	VOLUME	441137.163	3760701.902	200.71
LOCATION L0044996	VOLUME	441137.207	3760706.901	200.69
LOCATION L0044997	VOLUME	441137.251	3760711.901	200.66
LOCATION L0044998	VOLUME	441137.295	3760716.901	200.63
LOCATION L0044999	VOLUME	441137.340	3760721.901	200.61
LOCATION L0045000	VOLUME	441137.384	3760726.901	200.61
LOCATION L0045001	VOLUME	441137.428	3760731.900	200.61
LOCATION L0045002	VOLUME	441137.472	3760736.900	200.61
LOCATION L0045003	VOLUME	441137.517	3760741.900	200.62
LOCATION L0045004	VOLUME	441137.561	3760746.900	200.62
LOCATION L0045005	VOLUME	441137.605	3760751.900	200.62

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LOCATION L0045006	VOLUME	441137.649	3760756.900	200.63
LOCATION L0045007	VOLUME	441137.694	3760761.899	200.64
LOCATION L0045008	VOLUME	441137.738	3760766.899	200.65
LOCATION L0045009	VOLUME	441137.782	3760771.899	200.67
LOCATION L0045010	VOLUME	441137.826	3760776.899	200.68
LOCATION L0045011	VOLUME	441137.871	3760781.899	200.69
LOCATION L0045012	VOLUME	441137.915	3760786.898	200.75
LOCATION L0045013	VOLUME	441137.959	3760791.898	200.82
LOCATION L0045014	VOLUME	441137.913	3760796.898	200.90
LOCATION L0045015	VOLUME	441137.819	3760801.897	200.98
LOCATION L0045016	VOLUME	441137.726	3760806.896	201.05
LOCATION L0045017	VOLUME	441137.632	3760811.895	201.13
LOCATION L0045018	VOLUME	441137.539	3760816.894	201.19
LOCATION L0045019	VOLUME	441137.445	3760821.893	201.23
LOCATION L0045020	VOLUME	441137.352	3760826.892	201.27
LOCATION L0045021	VOLUME	441137.259	3760831.891	201.31
LOCATION L0045022	VOLUME	441137.165	3760836.891	201.35
LOCATION L0045023	VOLUME	441137.072	3760841.890	201.39
LOCATION L0045024	VOLUME	441136.978	3760846.889	201.42
LOCATION L0045025	VOLUME	441136.885	3760851.888	201.42
LOCATION L0045026	VOLUME	441136.791	3760856.887	201.43
LOCATION L0045027	VOLUME	441136.698	3760861.886	201.43
LOCATION L0045028	VOLUME	441136.604	3760866.885	201.43
LOCATION L0045029	VOLUME	441136.511	3760871.884	201.43
LOCATION L0045030	VOLUME	441136.418	3760876.884	201.44
LOCATION L0045031	VOLUME	441136.324	3760881.883	201.46
LOCATION L0045032	VOLUME	441136.231	3760886.882	201.48
LOCATION L0045033	VOLUME	441136.137	3760891.881	201.50
LOCATION L0045034	VOLUME	441136.044	3760896.880	201.52
LOCATION L0045035	VOLUME	441135.950	3760901.879	201.54
LOCATION L0045036	VOLUME	441135.857	3760906.878	201.56
LOCATION L0045037	VOLUME	441135.763	3760911.877	201.58
LOCATION L0045038	VOLUME	441135.695	3760916.877	201.59
LOCATION L0045039	VOLUME	441135.647	3760921.877	201.60
LOCATION L0045040	VOLUME	441135.599	3760926.876	201.62
LOCATION L0045041	VOLUME	441135.551	3760931.876	201.63
LOCATION L0045042	VOLUME	441135.504	3760936.876	201.65
LOCATION L0045043	VOLUME	441135.456	3760941.876	201.68
LOCATION L0045044	VOLUME	441135.408	3760946.876	201.71
LOCATION L0045045	VOLUME	441135.361	3760951.875	201.75
LOCATION L0045046	VOLUME	441135.313	3760956.875	201.78
LOCATION L0045047	VOLUME	441135.265	3760961.875	201.82
LOCATION L0045048	VOLUME	441135.218	3760966.875	201.85
LOCATION L0045049	VOLUME	441135.170	3760971.874	201.88
LOCATION L0045050	VOLUME	441135.122	3760976.874	201.92
LOCATION L0045051	VOLUME	441135.075	3760981.874	201.95
LOCATION L0045052	VOLUME	441135.027	3760986.874	201.98
LOCATION L0045053	VOLUME	441134.979	3760991.873	202.01

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LOCATION L0045054	VOLUME	441134.932	3760996.873	202.05
LOCATION L0045055	VOLUME	441134.884	3761001.873	202.08
LOCATION L0045056	VOLUME	441134.797	3761006.870	202.12
LOCATION L0045057	VOLUME	441134.161	3761011.830	202.16
LOCATION L0045058	VOLUME	441133.525	3761016.789	202.20
LOCATION L0045059	VOLUME	441132.889	3761021.748	202.24
LOCATION L0045060	VOLUME	441132.254	3761026.708	202.28
LOCATION L0045061	VOLUME	441131.618	3761031.667	202.33
LOCATION L0045062	VOLUME	441130.982	3761036.627	202.37
LOCATION L0045063	VOLUME	441127.230	3761039.789	202.45
LOCATION L0045064	VOLUME	441123.255	3761042.822	202.52
LOCATION L0045065	VOLUME	441119.281	3761045.855	202.59
LOCATION L0045066	VOLUME	441115.306	3761048.889	202.66
LOCATION L0045067	VOLUME	441111.331	3761051.922	202.73
LOCATION L0045068	VOLUME	441107.356	3761054.955	202.80
LOCATION L0045069	VOLUME	441103.382	3761057.989	202.84
LOCATION L0045070	VOLUME	441098.934	3761059.847	202.87
LOCATION L0045071	VOLUME	441093.966	3761060.411	202.89
LOCATION L0045072	VOLUME	441088.998	3761060.976	202.90
LOCATION L0045073	VOLUME	441084.030	3761061.541	202.92
LOCATION L0045074	VOLUME	441079.062	3761062.105	202.91
LOCATION L0045075	VOLUME	441074.094	3761062.670	202.85
LOCATION L0045076	VOLUME	441069.126	3761063.234	202.79
LOCATION L0045077	VOLUME	441064.140	3761063.510	202.73
LOCATION L0045078	VOLUME	441059.140	3761063.567	202.67
LOCATION L0045079	VOLUME	441054.141	3761063.624	202.61
LOCATION L0045080	VOLUME	441049.141	3761063.681	202.54
LOCATION L0045081	VOLUME	441044.141	3761063.738	202.46
LOCATION L0045082	VOLUME	441039.141	3761063.795	202.39
LOCATION L0045083	VOLUME	441034.142	3761063.852	202.31
LOCATION L0045084	VOLUME	441029.142	3761063.908	202.25
LOCATION L0045085	VOLUME	441024.142	3761063.965	202.26
LOCATION L0045086	VOLUME	441019.143	3761064.022	202.26
LOCATION L0045087	VOLUME	441014.143	3761064.079	202.26
LOCATION L0045088	VOLUME	441009.143	3761064.136	202.27
LOCATION L0045089	VOLUME	441004.144	3761064.193	202.28
LOCATION L0045090	VOLUME	440999.144	3761064.249	202.41
LOCATION L0045091	VOLUME	440994.144	3761064.306	202.54
LOCATION L0045092	VOLUME	440989.145	3761064.363	202.67

\*\* End of LINE VOLUME Source ID = SLINE67

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE68

\*\* DESCRSRC On-Site Circulation - PA 4 Loading Area 1

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.75E-06

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\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 13

\*\* 440988.019, 3761064.442, 202.76, 3.66, 2.33

\*\* 440920.669, 3761060.919, 203.29, 3.66, 2.33

\*\* 440882.111, 3761059.083, 202.02, 3.66, 2.33

\*\* 440856.406, 3761049.903, 201.74, 3.66, 2.33

\*\* 440836.209, 3761022.361, 200.90, 3.66, 2.33

\*\* 440825.193, 3760936.983, 200.35, 3.66, 2.33

\*\* 440822.438, 3760806.621, 199.55, 3.66, 2.33

\*\* 440824.275, 3760597.306, 197.76, 3.66, 2.33

\*\* 440844.306, 3760553.497, 197.42, 3.66, 2.33

\*\* 440880.275, 3760521.109, 197.53, 3.66, 2.33

\*\* 440917.915, 3760512.846, 197.91, 3.66, 2.33

\*\* 440962.899, 3760510.092, 198.13, 3.66, 2.33

\*\* 440989.725, 3760509.518, 198.60, 3.66, 2.33

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LOCATION L0045093      VOLUME  440985.523 3761064.311 202.76
LOCATION L0045094      VOLUME  440980.530 3761064.050 202.89
LOCATION L0045095      VOLUME  440975.536 3761063.789 202.99
LOCATION L0045096      VOLUME  440970.543 3761063.528 203.07
LOCATION L0045097      VOLUME  440965.550 3761063.266 203.16
LOCATION L0045098      VOLUME  440960.557 3761063.005 203.25
LOCATION L0045099      VOLUME  440955.564 3761062.744 203.33
LOCATION L0045100      VOLUME  440950.571 3761062.483 203.38
LOCATION L0045101      VOLUME  440945.577 3761062.222 203.38
LOCATION L0045102      VOLUME  440940.584 3761061.961 203.38
LOCATION L0045103      VOLUME  440935.591 3761061.700 203.39
LOCATION L0045104      VOLUME  440930.598 3761061.439 203.39
LOCATION L0045105      VOLUME  440925.605 3761061.177 203.35
LOCATION L0045106      VOLUME  440920.611 3761060.917 203.24
LOCATION L0045107      VOLUME  440915.617 3761060.679 203.13
LOCATION L0045108      VOLUME  440910.623 3761060.441 203.02
LOCATION L0045109      VOLUME  440905.628 3761060.203 202.91
LOCATION L0045110      VOLUME  440900.634 3761059.965 202.79
LOCATION L0045111      VOLUME  440895.640 3761059.727 202.61
LOCATION L0045112      VOLUME  440890.645 3761059.490 202.44
LOCATION L0045113      VOLUME  440885.651 3761059.252 202.26
LOCATION L0045114      VOLUME  440880.740 3761058.593 202.08
LOCATION L0045115      VOLUME  440876.031 3761056.912 201.91
LOCATION L0045116      VOLUME  440871.323 3761055.230 201.86
LOCATION L0045117      VOLUME  440866.614 3761053.548 201.81
LOCATION L0045118      VOLUME  440861.905 3761051.867 201.76
LOCATION L0045119      VOLUME  440857.196 3761050.185 201.70
LOCATION L0045120      VOLUME  440853.946 3761046.547 201.62
LOCATION L0045121      VOLUME  440850.989 3761042.515 201.53
LOCATION L0045122      VOLUME  440848.032 3761038.483 201.45
LOCATION L0045123      VOLUME  440845.075 3761034.451 201.36
    
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LOCATION L0045124	VOLUME	440842.118	3761030.419	201.28
LOCATION L0045125	VOLUME	440839.161	3761026.387	201.19
LOCATION L0045126	VOLUME	440836.208	3761022.354	201.12
LOCATION L0045127	VOLUME	440835.568	3761017.395	201.05
LOCATION L0045128	VOLUME	440834.928	3761012.436	200.98
LOCATION L0045129	VOLUME	440834.289	3761007.477	200.91
LOCATION L0045130	VOLUME	440833.649	3761002.518	200.84
LOCATION L0045131	VOLUME	440833.009	3760997.559	200.80
LOCATION L0045132	VOLUME	440832.369	3760992.601	200.76
LOCATION L0045133	VOLUME	440831.729	3760987.642	200.71
LOCATION L0045134	VOLUME	440831.089	3760982.683	200.67
LOCATION L0045135	VOLUME	440830.449	3760977.724	200.63
LOCATION L0045136	VOLUME	440829.810	3760972.765	200.59
LOCATION L0045137	VOLUME	440829.170	3760967.806	200.55
LOCATION L0045138	VOLUME	440828.530	3760962.847	200.52
LOCATION L0045139	VOLUME	440827.890	3760957.888	200.49
LOCATION L0045140	VOLUME	440827.250	3760952.929	200.46
LOCATION L0045141	VOLUME	440826.610	3760947.971	200.42
LOCATION L0045142	VOLUME	440825.970	3760943.012	200.39
LOCATION L0045143	VOLUME	440825.331	3760938.053	200.35
LOCATION L0045144	VOLUME	440825.110	3760933.062	200.31
LOCATION L0045145	VOLUME	440825.004	3760928.064	200.26
LOCATION L0045146	VOLUME	440824.899	3760923.065	200.22
LOCATION L0045147	VOLUME	440824.793	3760918.066	200.18
LOCATION L0045148	VOLUME	440824.687	3760913.067	200.13
LOCATION L0045149	VOLUME	440824.582	3760908.068	200.09
LOCATION L0045150	VOLUME	440824.476	3760903.069	200.05
LOCATION L0045151	VOLUME	440824.370	3760898.070	200.01
LOCATION L0045152	VOLUME	440824.265	3760893.071	199.98
LOCATION L0045153	VOLUME	440824.159	3760888.073	199.94
LOCATION L0045154	VOLUME	440824.054	3760883.074	199.90
LOCATION L0045155	VOLUME	440823.948	3760878.075	199.86
LOCATION L0045156	VOLUME	440823.842	3760873.076	199.84
LOCATION L0045157	VOLUME	440823.737	3760868.077	199.82
LOCATION L0045158	VOLUME	440823.631	3760863.078	199.80
LOCATION L0045159	VOLUME	440823.526	3760858.079	199.78
LOCATION L0045160	VOLUME	440823.420	3760853.080	199.77
LOCATION L0045161	VOLUME	440823.314	3760848.081	199.75
LOCATION L0045162	VOLUME	440823.209	3760843.083	199.72
LOCATION L0045163	VOLUME	440823.103	3760838.084	199.69
LOCATION L0045164	VOLUME	440822.998	3760833.085	199.66
LOCATION L0045165	VOLUME	440822.892	3760828.086	199.63
LOCATION L0045166	VOLUME	440822.786	3760823.087	199.61
LOCATION L0045167	VOLUME	440822.681	3760818.088	199.58
LOCATION L0045168	VOLUME	440822.575	3760813.089	199.55
LOCATION L0045169	VOLUME	440822.469	3760808.090	199.52
LOCATION L0045170	VOLUME	440822.469	3760803.091	199.49
LOCATION L0045171	VOLUME	440822.513	3760798.091	199.46



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LOCATION L0045172	VOLUME	440822.557	3760793.091	199.43
LOCATION L0045173	VOLUME	440822.601	3760788.091	199.40
LOCATION L0045174	VOLUME	440822.645	3760783.092	199.37
LOCATION L0045175	VOLUME	440822.689	3760778.092	199.33
LOCATION L0045176	VOLUME	440822.733	3760773.092	199.29
LOCATION L0045177	VOLUME	440822.776	3760768.092	199.26
LOCATION L0045178	VOLUME	440822.820	3760763.092	199.22
LOCATION L0045179	VOLUME	440822.864	3760758.093	199.18
LOCATION L0045180	VOLUME	440822.908	3760753.093	199.14
LOCATION L0045181	VOLUME	440822.952	3760748.093	199.10
LOCATION L0045182	VOLUME	440822.996	3760743.093	199.06
LOCATION L0045183	VOLUME	440823.040	3760738.093	199.02
LOCATION L0045184	VOLUME	440823.083	3760733.094	198.98
LOCATION L0045185	VOLUME	440823.127	3760728.094	198.94
LOCATION L0045186	VOLUME	440823.171	3760723.094	198.90
LOCATION L0045187	VOLUME	440823.215	3760718.094	198.86
LOCATION L0045188	VOLUME	440823.259	3760713.094	198.82
LOCATION L0045189	VOLUME	440823.303	3760708.094	198.77
LOCATION L0045190	VOLUME	440823.347	3760703.095	198.73
LOCATION L0045191	VOLUME	440823.390	3760698.095	198.69
LOCATION L0045192	VOLUME	440823.434	3760693.095	198.65
LOCATION L0045193	VOLUME	440823.478	3760688.095	198.60
LOCATION L0045194	VOLUME	440823.522	3760683.095	198.56
LOCATION L0045195	VOLUME	440823.566	3760678.096	198.52
LOCATION L0045196	VOLUME	440823.610	3760673.096	198.48
LOCATION L0045197	VOLUME	440823.654	3760668.096	198.43
LOCATION L0045198	VOLUME	440823.697	3760663.096	198.39
LOCATION L0045199	VOLUME	440823.741	3760658.096	198.35
LOCATION L0045200	VOLUME	440823.785	3760653.097	198.31
LOCATION L0045201	VOLUME	440823.829	3760648.097	198.27
LOCATION L0045202	VOLUME	440823.873	3760643.097	198.22
LOCATION L0045203	VOLUME	440823.917	3760638.097	198.18
LOCATION L0045204	VOLUME	440823.961	3760633.097	198.14
LOCATION L0045205	VOLUME	440824.004	3760628.098	198.09
LOCATION L0045206	VOLUME	440824.048	3760623.098	198.03
LOCATION L0045207	VOLUME	440824.092	3760618.098	197.98
LOCATION L0045208	VOLUME	440824.136	3760613.098	197.92
LOCATION L0045209	VOLUME	440824.180	3760608.098	197.86
LOCATION L0045210	VOLUME	440824.224	3760603.099	197.81
LOCATION L0045211	VOLUME	440824.268	3760598.099	197.74
LOCATION L0045212	VOLUME	440826.024	3760593.480	197.69
LOCATION L0045213	VOLUME	440828.103	3760588.933	197.65
LOCATION L0045214	VOLUME	440830.183	3760584.385	197.60
LOCATION L0045215	VOLUME	440832.262	3760579.838	197.56
LOCATION L0045216	VOLUME	440834.341	3760575.291	197.52
LOCATION L0045217	VOLUME	440836.420	3760570.744	197.48
LOCATION L0045218	VOLUME	440838.499	3760566.197	197.44
LOCATION L0045219	VOLUME	440840.578	3760561.649	197.41

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LOCATION	L0045220	VOLUME	440842.658	3760557.102	197.38
LOCATION	L0045221	VOLUME	440845.076	3760552.804	197.35
LOCATION	L0045222	VOLUME	440848.791	3760549.458	197.36
LOCATION	L0045223	VOLUME	440852.507	3760546.112	197.39
LOCATION	L0045224	VOLUME	440856.223	3760542.767	197.42
LOCATION	L0045225	VOLUME	440859.938	3760539.421	197.45
LOCATION	L0045226	VOLUME	440863.654	3760536.075	197.49
LOCATION	L0045227	VOLUME	440867.370	3760532.729	197.53
LOCATION	L0045228	VOLUME	440871.085	3760529.384	197.56
LOCATION	L0045229	VOLUME	440874.801	3760526.038	197.59
LOCATION	L0045230	VOLUME	440878.517	3760522.692	197.62
LOCATION	L0045231	VOLUME	440882.847	3760520.544	197.67
LOCATION	L0045232	VOLUME	440887.731	3760519.472	197.74
LOCATION	L0045233	VOLUME	440892.615	3760518.400	197.81
LOCATION	L0045234	VOLUME	440897.499	3760517.328	197.88
LOCATION	L0045235	VOLUME	440902.382	3760516.256	197.90
LOCATION	L0045236	VOLUME	440907.266	3760515.184	197.92
LOCATION	L0045237	VOLUME	440912.150	3760514.112	197.93
LOCATION	L0045238	VOLUME	440917.033	3760513.040	197.95
LOCATION	L0045239	VOLUME	440922.005	3760512.596	197.97
LOCATION	L0045240	VOLUME	440926.995	3760512.290	197.98
LOCATION	L0045241	VOLUME	440931.986	3760511.985	197.99
LOCATION	L0045242	VOLUME	440936.977	3760511.679	198.00
LOCATION	L0045243	VOLUME	440941.967	3760511.374	198.01
LOCATION	L0045244	VOLUME	440946.958	3760511.068	198.02
LOCATION	L0045245	VOLUME	440951.949	3760510.763	198.04
LOCATION	L0045246	VOLUME	440956.939	3760510.457	198.08
LOCATION	L0045247	VOLUME	440961.930	3760510.151	198.12
LOCATION	L0045248	VOLUME	440966.927	3760510.006	198.16
LOCATION	L0045249	VOLUME	440971.926	3760509.899	198.20
LOCATION	L0045250	VOLUME	440976.925	3760509.792	198.28
LOCATION	L0045251	VOLUME	440981.924	3760509.685	198.42
LOCATION	L0045252	VOLUME	440986.923	3760509.578	198.57

\*\* End of LINE VOLUME Source ID = SLINE68

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0040784	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040785	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040786	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040787	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040788	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040789	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040790	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040791	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040792	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040793	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040794	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040795	0.0000001805	3.66	5.58	2.89

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SRCPARAM L0040796	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040797	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040798	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040799	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040800	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040801	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040802	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040803	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040804	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040805	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040806	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040807	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040808	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040809	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040810	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040811	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040812	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040813	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040814	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040815	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040816	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040817	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040818	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040819	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040820	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040821	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040822	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040823	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040824	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040825	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040826	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040827	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040828	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040829	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040830	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040831	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040832	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040833	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040834	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040835	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040836	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040837	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040838	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040839	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040840	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040841	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040842	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040843	0.0000001805	3.66	5.58	2.89

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SRCPARAM L0040844	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040845	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040846	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040847	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040848	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040849	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040850	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040851	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040852	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040853	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040854	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040855	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040856	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040857	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040858	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040859	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040860	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040861	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040862	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040863	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040864	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040865	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040866	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040867	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040868	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040869	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040870	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040871	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040872	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040873	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040874	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040875	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040876	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040877	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040878	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040879	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040880	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040881	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040882	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040883	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040884	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040885	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040886	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040887	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040888	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040889	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040890	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040891	0.0000001805	3.66	5.58	2.89



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SRCPARAM L0040940	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040941	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040942	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040943	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040944	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040945	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040946	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040947	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040948	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040949	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040950	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040951	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040952	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040953	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040954	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040955	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040956	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040957	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040958	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040959	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040960	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040961	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040962	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040963	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040964	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040965	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040966	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040967	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040968	0.0000001805	3.66	5.58	2.89

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM L0040969	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040970	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040971	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040972	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040973	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040974	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040975	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040976	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040977	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040978	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040979	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040980	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040981	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040982	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040983	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040984	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040985	0.0000001203	3.66	5.58	2.89

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SRCPARAM L0040986	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040987	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040988	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040989	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040990	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040991	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040992	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040993	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040994	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040995	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040996	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040997	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040998	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040999	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041000	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041001	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041002	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041003	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041004	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041005	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041006	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041007	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041008	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041009	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041010	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041011	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041012	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041013	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041014	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041015	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041016	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041017	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041018	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041019	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041020	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041021	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041022	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041023	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041024	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041025	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041026	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041027	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041028	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041029	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041030	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041031	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041032	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041033	0.0000001203	3.66	5.58	2.89





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SRCPARAM	L0041082	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041083	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041084	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041085	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041086	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041087	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041088	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041089	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041090	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041091	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041092	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041093	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041094	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041095	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041096	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041097	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041098	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041099	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041100	0.0000001203	3.66	5.58	2.89
SRCPARAM	L0041101	0.0000001203	3.66	5.58	2.89

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\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0041102	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041103	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041104	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041105	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041106	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041107	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041108	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041109	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041110	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041111	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041112	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041113	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041114	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041115	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041116	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041117	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041118	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041119	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041120	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041121	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041122	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041123	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041124	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041125	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041126	0.00000006818	3.66	2.33	2.89
SRCPARAM	L0041127	0.00000006818	3.66	2.33	2.89







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SRCPARAM L0041272	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041273	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041274	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041275	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041276	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041277	0.00000006818	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE5

SRCPARAM L0041278	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041279	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041280	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041281	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041282	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041283	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041284	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041285	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041286	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041287	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041288	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041289	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041290	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041291	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041292	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041293	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041294	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041295	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041296	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041297	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041298	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041299	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041300	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041301	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041302	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041303	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041304	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041305	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041306	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041307	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041308	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041309	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041310	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041311	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041312	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041313	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041314	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041315	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041316	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041317	0.00000006807	3.66	2.33	2.89

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SRCPARAM L0041318	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041319	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041320	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041321	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041322	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041323	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041324	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041325	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041326	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041327	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041328	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041329	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041330	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041331	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041332	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041333	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041334	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041335	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041336	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041337	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041338	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041339	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041340	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041341	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041342	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041343	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041344	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041345	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041346	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041347	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041348	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041349	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041350	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041351	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041352	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041353	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041354	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041355	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041356	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041357	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041358	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041359	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041360	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041361	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041362	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041363	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041364	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041365	0.00000006807	3.66	2.33	2.89





















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SRCPARAM L0041798	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041799	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041800	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041801	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041802	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041803	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041804	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041805	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041806	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041807	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041808	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041809	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041810	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041811	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041812	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041813	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041814	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041815	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041816	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041817	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041818	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041819	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041820	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041821	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041822	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041823	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041824	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041825	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041826	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041827	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041828	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041829	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041830	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041831	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041832	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041833	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041834	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041835	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041836	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041837	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041838	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041839	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041840	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041841	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041842	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041843	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041844	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041845	0.00000006807	3.66	2.33	2.89





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SRCPARAM	L0041894	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041895	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041896	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041897	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041898	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041899	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041900	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041901	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041902	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041903	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041904	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041905	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041906	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041907	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041908	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041909	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041910	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041911	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041912	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041913	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041914	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041915	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041916	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041917	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041918	0.00000006807	3.66	2.33	2.89
SRCPARAM	L0041919	0.00000006807	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE13

SRCPARAM	L0041920	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041921	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041922	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041923	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041924	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041925	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041926	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041927	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041928	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041929	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041930	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041931	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041932	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041933	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041934	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041935	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041936	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041937	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041938	0.00000005535	3.66	2.33	2.89
SRCPARAM	L0041939	0.00000005535	3.66	2.33	2.89

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SRCPARAM L0041940	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041941	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041942	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041943	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041944	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041945	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041946	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041947	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041948	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041949	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041950	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041951	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041952	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041953	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041954	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041955	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041956	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041957	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041958	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041959	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041960	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041961	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041962	0.00000005535	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE14

SRCPARAM L0041963	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041964	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041965	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041966	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041967	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041968	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041969	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041970	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041971	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041972	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041973	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041974	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041975	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041976	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041977	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041978	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041979	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041980	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041981	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041982	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041983	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041984	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041985	0.0000000465	3.66	2.33	2.89

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SRCPARAM L0041986	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041987	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041988	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041989	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041990	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041991	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041992	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041993	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041994	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041995	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041996	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041997	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041998	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041999	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042000	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042001	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042002	0.0000000465	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE15

SRCPARAM L0042003	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042004	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042005	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042006	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042007	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042008	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042009	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042010	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042011	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042012	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042013	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042014	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042015	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042016	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042017	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042018	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042019	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042020	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042021	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042022	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042023	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042024	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042025	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042026	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042027	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042028	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042029	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042030	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042031	0.00000004472	3.66	2.33	2.89

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SRCPARAM L0042032	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042033	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042034	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042035	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042036	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042037	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042038	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042039	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042040	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042041	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042042	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042043	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042044	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042045	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042046	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042047	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042048	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042049	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042050	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042051	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042052	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042053	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042054	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042055	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042056	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042057	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042058	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042059	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042060	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042061	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042062	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042063	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042064	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042065	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042066	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042067	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042068	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042069	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042070	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042071	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042072	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042073	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042074	0.00000004472	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE16

SRCPARAM L0042075	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042076	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042077	0.00000003475	3.66	2.33	2.89

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SRCPARAM L0042078	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042079	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042080	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042081	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042082	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042083	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042084	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042085	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042086	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042087	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042088	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042089	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042090	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042091	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042092	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042093	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042094	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042095	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042096	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042097	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042098	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042099	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042100	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042101	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042102	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042103	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042104	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042105	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042106	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042107	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042108	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042109	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042110	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042111	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042112	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042113	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042114	0.00000003475	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE17

SRCPARAM L0042115	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042116	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042117	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042118	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042119	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042120	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042121	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042122	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042123	0.0000000232	3.66	2.33	2.89

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SRCPARAM L0042124	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042125	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042126	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042127	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042128	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042129	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042130	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042131	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042132	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042133	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042134	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042135	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042136	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042137	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042138	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042139	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042140	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042141	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042142	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042143	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042144	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042145	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042146	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042147	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042148	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042149	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042150	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042151	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042152	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042153	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042154	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042155	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042156	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042157	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042158	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042159	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042160	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042161	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042162	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042163	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042164	0.0000000232	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE18

SRCPARAM L0042165	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042166	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042167	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042168	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042169	0.0000001204	3.66	2.33	2.89





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SRCPARAM L0042218	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042219	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042220	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042221	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042222	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042223	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042224	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042225	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042226	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042227	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042228	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042229	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042230	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042231	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042232	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042233	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042234	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042235	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042236	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042237	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042238	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042239	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042240	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042241	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042242	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042243	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042244	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042245	0.0000001204	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE19

SRCPARAM L0042246	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042247	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042248	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042249	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042250	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042251	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042252	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042253	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042254	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042255	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042256	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042257	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042258	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042259	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042260	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042261	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042262	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042263	0.00000008667	3.66	2.33	2.89

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SRCPARAM L0042264	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042265	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042266	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042267	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042268	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042269	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042270	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042271	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042272	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042273	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042274	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042275	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042276	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042277	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042278	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042279	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042280	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042281	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042282	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042283	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042284	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042285	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042286	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042287	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042288	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042289	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042290	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042291	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042292	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042293	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042294	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042295	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042296	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042297	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042298	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042299	0.00000008667	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE20

SRCPARAM L0042300	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042301	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042302	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042303	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042304	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042305	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042306	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042307	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042308	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042309	0.0000000564	3.66	2.33	2.89

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SRCPARAM L0042310	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042311	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042312	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042313	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042314	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042315	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042316	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042317	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042318	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042319	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042320	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042321	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042322	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042323	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042324	0.0000000564	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE21

SRCPARAM L0042325	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042326	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042327	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042328	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042329	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042330	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042331	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042332	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042333	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042334	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042335	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042336	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042337	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042338	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042339	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042340	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042341	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042342	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042343	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042344	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042345	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042346	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042347	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042348	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042349	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042350	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042351	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042352	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042353	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042354	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042355	0.00000004195	3.66	2.33	2.89

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SRCPARAM L0042356	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042357	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042358	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042359	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042360	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042361	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042362	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042363	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042364	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042365	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042366	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042367	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042368	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042369	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042370	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042371	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042372	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042373	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042374	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042375	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042376	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042377	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042378	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042379	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042380	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042381	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042382	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042383	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042384	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042385	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042386	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042387	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042388	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042389	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042390	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042391	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042392	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042393	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042394	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042395	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042396	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042397	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042398	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042399	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042400	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042401	0.00000004195	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE22





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SRCPARAM L0042498	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042499	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042500	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042501	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042502	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042503	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042504	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042505	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042506	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042507	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042508	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042509	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042510	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042511	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042512	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042513	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042514	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042515	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042516	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042517	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042518	0.000000008008	3.66	2.33	2.89
SRCPARAM L0042519	0.000000008008	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE23

SRCPARAM L0042520	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042521	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042522	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042523	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042524	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042525	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042526	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042527	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042528	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042529	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042530	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042531	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042532	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042533	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042534	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042535	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042536	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042537	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042538	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042539	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042540	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042541	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042542	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042543	0.00000004861	3.66	2.33	2.89

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SRCPARAM	L0042544	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042545	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042546	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042547	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042548	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042549	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042550	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042551	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042552	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042553	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042554	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042555	0.00000004861	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE24

SRCPARAM	L0042556	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042557	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042558	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042559	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042560	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042561	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042562	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042563	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042564	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042565	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042566	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042567	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042568	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042569	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042570	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042571	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042572	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042573	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042574	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042575	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042576	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042577	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042578	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042579	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042580	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042581	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042582	0.00000005179	3.66	2.33	2.89
SRCPARAM	L0042583	0.00000005179	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE25

SRCPARAM	L0042584	0.00000003484	3.66	2.33	2.89
SRCPARAM	L0042585	0.00000003484	3.66	2.33	2.89
SRCPARAM	L0042586	0.00000003484	3.66	2.33	2.89
SRCPARAM	L0042587	0.00000003484	3.66	2.33	2.89



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SRCPARAM L0042588	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042589	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042590	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042591	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042592	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042593	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042594	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042595	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042596	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042597	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042598	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042599	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042600	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042601	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042602	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042603	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042604	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042605	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042606	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042607	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042608	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042609	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042610	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042611	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042612	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042613	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042614	0.00000003484	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE26

SRCPARAM L0042615	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042616	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042617	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042618	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042619	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042620	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042621	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042622	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042623	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042624	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042625	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042626	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042627	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042628	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042629	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042630	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042631	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042632	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042633	0.00000001931	3.66	2.33	2.89

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SRCPARAM	L0042634	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042635	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042636	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042637	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042638	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042639	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042640	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042641	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042642	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042643	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042644	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042645	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042646	0.00000001931	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE27

SRCPARAM	L0042647	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042648	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042649	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042650	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042651	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042652	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042653	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042654	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042655	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042656	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042657	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042658	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042659	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042660	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042661	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042662	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042663	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042664	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042665	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042666	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042667	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042668	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042669	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042670	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042671	0.00000001392	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE28

SRCPARAM	L0042672	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042673	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042674	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042675	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042676	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042677	0.00000001388	3.66	2.33	2.89

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SRCPARAM L0042678	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042679	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042680	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042681	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042682	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042683	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042684	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042685	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042686	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042687	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042688	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042689	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042690	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042691	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042692	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042693	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042694	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042695	0.00000001388	3.66	2.33	2.89
SRCPARAM L0042696	0.00000001388	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE29

SRCPARAM L0042697	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042698	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042699	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042700	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042701	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042702	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042703	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042704	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042705	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042706	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042707	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042708	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042709	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042710	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042711	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042712	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042713	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042714	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042715	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042716	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042717	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042718	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042719	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042720	0.00000001392	3.66	2.33	2.89
SRCPARAM L0042721	0.00000001392	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE30

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SRCPARAM	L0042722	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042723	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042724	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042725	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042726	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042727	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042728	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042729	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042730	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042731	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042732	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042733	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042734	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042735	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042736	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042737	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042738	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042739	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042740	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042741	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042742	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042743	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042744	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042745	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042746	0.00000002756	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE31

SRCPARAM	L0042747	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042748	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042749	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042750	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042751	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042752	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042753	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042754	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042755	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042756	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042757	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042758	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042759	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042760	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042761	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042762	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042763	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042764	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042765	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042766	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042767	0.00000008224	3.66	2.33	2.89



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SRCPARAM	L0042816	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042817	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042818	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042819	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042820	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042821	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042822	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042823	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042824	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042825	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042826	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042827	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042828	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042829	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042830	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042831	0.00000008224	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE32

SRCPARAM	L0042832	0.00000001675	3.66	2.33	2.89
SRCPARAM	L0042833	0.00000001675	3.66	2.33	2.89
SRCPARAM	L0042834	0.00000001675	3.66	2.33	2.89
SRCPARAM	L0042835	0.00000001675	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE33

SRCPARAM	L0042836	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042837	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042838	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042839	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042840	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042841	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042842	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042843	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042844	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042845	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042846	0.00000008175	3.66	2.33	2.89
SRCPARAM	L0042847	0.00000008175	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE34

SRCPARAM	L0042848	0.00000003383	3.66	2.33	2.89
SRCPARAM	L0042849	0.00000003383	3.66	2.33	2.89
SRCPARAM	L0042850	0.00000003383	3.66	2.33	2.89
SRCPARAM	L0042851	0.00000003383	3.66	2.33	2.89
SRCPARAM	L0042852	0.00000003383	3.66	2.33	2.89
SRCPARAM	L0042853	0.00000003383	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE35

SRCPARAM	L0042854	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042855	0.0000000258	3.66	2.33	2.89

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SRCPARAM	L0042856	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042857	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042858	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042859	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042860	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042861	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042862	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042863	0.0000000258	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE36

SRCPARAM	L0042864	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042865	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042866	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042867	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042868	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042869	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042870	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042871	0.00000007525	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE37

SRCPARAM	L0042872	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042873	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042874	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042875	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042876	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042877	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042878	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042879	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042880	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042881	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042882	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042883	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042884	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042885	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042886	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042887	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042888	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042889	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042890	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042891	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042892	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042893	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042894	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042895	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042896	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042897	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042898	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042899	0.00000005693	3.66	2.33	2.89

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SRCPARAM L0042900	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042901	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042902	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042903	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042904	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042905	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042906	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042907	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042908	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042909	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042910	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042911	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042912	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042913	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042914	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042915	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042916	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042917	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042918	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042919	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042920	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042921	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042922	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042923	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042924	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042925	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042926	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042927	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042928	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042929	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042930	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042931	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042932	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042933	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042934	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042935	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042936	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042937	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042938	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042939	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042940	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042941	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042942	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042943	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042944	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042945	0.00000005693	3.66	2.33	2.89
SRCPARAM L0042946	0.00000005693	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE38

SRCPARAM	L0042947	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042948	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042949	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042950	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042951	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042952	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042953	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042954	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042955	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042956	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042957	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042958	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042959	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042960	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042961	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042962	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042963	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042964	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042965	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042966	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042967	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042968	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042969	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042970	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042971	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042972	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042973	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042974	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042975	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042976	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042977	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042978	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042979	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042980	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042981	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042982	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042983	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042984	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042985	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042986	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042987	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042988	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042989	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042990	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042991	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042992	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042993	0.00000002267	3.66	2.33	2.89

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SRCPARAM	L0042994	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042995	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042996	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042997	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042998	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042999	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043000	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043001	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043002	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043003	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043004	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043005	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0043006	0.00000002267	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE39

SRCPARAM	L0043007	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043008	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043009	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043010	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043011	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043012	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043013	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043014	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043015	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043016	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043017	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043018	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043019	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043020	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043021	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043022	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043023	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043024	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043025	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043026	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043027	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043028	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043029	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043030	0.00000000676	3.66	2.33	2.89
SRCPARAM	L0043031	0.00000000676	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE40

SRCPARAM	L0043032	0.000000006818	3.66	2.33	2.89
SRCPARAM	L0043033	0.000000006818	3.66	2.33	2.89
SRCPARAM	L0043034	0.000000006818	3.66	2.33	2.89
SRCPARAM	L0043035	0.000000006818	3.66	2.33	2.89
SRCPARAM	L0043036	0.000000006818	3.66	2.33	2.89
SRCPARAM	L0043037	0.000000006818	3.66	2.33	2.89

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SRCPARAM L0043038	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043039	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043040	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043041	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043042	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043043	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043044	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043045	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043046	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043047	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043048	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043049	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043050	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043051	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043052	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043053	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043054	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043055	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043056	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043057	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043058	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043059	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043060	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043061	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043062	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043063	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043064	0.000000006818	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE41

SRCPARAM L0043065	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043066	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043067	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043068	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043069	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043070	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043071	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043072	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043073	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043074	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043075	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043076	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043077	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043078	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043079	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043080	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043081	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043082	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043083	0.000000006918	3.66	2.33	2.89

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SRCPARAM L0043084	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043085	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043086	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043087	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043088	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043089	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043090	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043091	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043092	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043093	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043094	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043095	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043096	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043097	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043098	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043099	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043100	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043101	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043102	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043103	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043104	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043105	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043106	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043107	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043108	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043109	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043110	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043111	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043112	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043113	0.000000006918	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE42

SRCPARAM L0043114	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043115	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043116	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043117	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043118	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043119	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043120	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043121	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043122	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043123	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043124	0.000000001664	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE43

SRCPARAM L0043125	0.00000000128	3.66	2.33	2.89
SRCPARAM L0043126	0.00000000128	3.66	2.33	2.89
SRCPARAM L0043127	0.00000000128	3.66	2.33	2.89

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SRCPARAM	L0043128	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043129	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043130	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043131	0.0000000128	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE44				
SRCPARAM	L0043132	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043133	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043134	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043135	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043136	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043137	0.000000017	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE45				
SRCPARAM	L0043138	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043139	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043140	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043141	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043142	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043143	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043144	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043145	0.00000003225	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE46				
SRCPARAM	L0043146	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043147	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043148	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043149	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043150	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043151	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043152	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043153	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043154	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043155	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043156	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043157	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043158	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043159	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043160	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043161	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043162	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043163	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043164	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043165	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043166	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043167	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043168	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043169	0.00000006859	3.66	2.33	2.89



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SRCPARAM L0043218	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043219	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043220	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043221	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043222	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043223	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043224	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043225	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043226	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043227	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043228	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043229	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043230	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043231	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043232	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043233	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043234	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043235	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043236	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043237	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043238	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043239	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043240	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043241	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043242	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043243	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043244	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043245	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043246	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043247	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043248	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043249	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043250	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043251	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043252	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043253	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043254	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043255	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043256	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043257	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043258	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043259	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043260	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043261	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043262	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043263	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043264	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043265	0.00000006859	3.66	2.33	2.89

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SRCPARAM L0043266	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043267	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043268	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043269	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043270	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043271	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043272	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043273	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043274	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043275	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043276	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043277	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043278	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043279	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043280	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043281	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043282	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043283	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043284	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043285	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043286	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043287	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043288	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043289	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043290	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043291	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043292	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043293	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043294	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043295	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043296	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043297	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043298	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043299	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043300	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043301	0.00000006859	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE47

SRCPARAM L0043302	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043303	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043304	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043305	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043306	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043307	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043308	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043309	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043310	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043311	0.00000005921	3.66	2.33	2.89







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SRCPARAM L0043408	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043409	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043410	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043411	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043412	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043413	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043414	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043415	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043416	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043417	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043418	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043419	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043420	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043421	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043422	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043423	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043424	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043425	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043426	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043427	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043428	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043429	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043430	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043431	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043432	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043433	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043434	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043435	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043436	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043437	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043438	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043439	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043440	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043441	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043442	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043443	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043444	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043445	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043446	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043447	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043448	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043449	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043450	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043451	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043452	0.00000005921	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE48

SRCPARAM L0043453	0.00000005866	3.66	2.33	2.89
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SRCPARAM L0043598	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043599	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043600	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043601	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043602	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043603	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043604	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043605	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043606	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043607	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043608	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043609	0.00000005866	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE49

SRCPARAM L0043610	0.0	3.66	1.40	2.89
SRCPARAM L0043611	0.0	3.66	1.40	2.89
SRCPARAM L0043612	0.0	3.66	1.40	2.89
SRCPARAM L0043613	0.0	3.66	1.40	2.89
SRCPARAM L0043614	0.0	3.66	1.40	2.89
SRCPARAM L0043615	0.0	3.66	1.40	2.89
SRCPARAM L0043616	0.0	3.66	1.40	2.89
SRCPARAM L0043617	0.0	3.66	1.40	2.89
SRCPARAM L0043618	0.0	3.66	1.40	2.89
SRCPARAM L0043619	0.0	3.66	1.40	2.89
SRCPARAM L0043620	0.0	3.66	1.40	2.89
SRCPARAM L0043621	0.0	3.66	1.40	2.89
SRCPARAM L0043622	0.0	3.66	1.40	2.89
SRCPARAM L0043623	0.0	3.66	1.40	2.89
SRCPARAM L0043624	0.0	3.66	1.40	2.89
SRCPARAM L0043625	0.0	3.66	1.40	2.89
SRCPARAM L0043626	0.0	3.66	1.40	2.89
SRCPARAM L0043627	0.0	3.66	1.40	2.89
SRCPARAM L0043628	0.0	3.66	1.40	2.89
SRCPARAM L0043629	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE50

SRCPARAM L0043630	0.0	3.66	1.40	2.89
SRCPARAM L0043631	0.0	3.66	1.40	2.89
SRCPARAM L0043632	0.0	3.66	1.40	2.89
SRCPARAM L0043633	0.0	3.66	1.40	2.89
SRCPARAM L0043634	0.0	3.66	1.40	2.89
SRCPARAM L0043635	0.0	3.66	1.40	2.89
SRCPARAM L0043636	0.0	3.66	1.40	2.89
SRCPARAM L0043637	0.0	3.66	1.40	2.89
SRCPARAM L0043638	0.0	3.66	1.40	2.89
SRCPARAM L0043639	0.0	3.66	1.40	2.89
SRCPARAM L0043640	0.0	3.66	1.40	2.89
SRCPARAM L0043641	0.0	3.66	1.40	2.89

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SRCPARAM L0043642	0.0	3.66	1.40	2.89
SRCPARAM L0043643	0.0	3.66	1.40	2.89
SRCPARAM L0043644	0.0	3.66	1.40	2.89
SRCPARAM L0043645	0.0	3.66	1.40	2.89
SRCPARAM L0043646	0.0	3.66	1.40	2.89
SRCPARAM L0043647	0.0	3.66	1.40	2.89
SRCPARAM L0043648	0.0	3.66	1.40	2.89
SRCPARAM L0043649	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE51

SRCPARAM L0043650	0.0	3.66	1.40	2.89
SRCPARAM L0043651	0.0	3.66	1.40	2.89
SRCPARAM L0043652	0.0	3.66	1.40	2.89
SRCPARAM L0043653	0.0	3.66	1.40	2.89
SRCPARAM L0043654	0.0	3.66	1.40	2.89
SRCPARAM L0043655	0.0	3.66	1.40	2.89
SRCPARAM L0043656	0.0	3.66	1.40	2.89
SRCPARAM L0043657	0.0	3.66	1.40	2.89
SRCPARAM L0043658	0.0	3.66	1.40	2.89
SRCPARAM L0043659	0.0	3.66	1.40	2.89
SRCPARAM L0043660	0.0	3.66	1.40	2.89
SRCPARAM L0043661	0.0	3.66	1.40	2.89
SRCPARAM L0043662	0.0	3.66	1.40	2.89
SRCPARAM L0043663	0.0	3.66	1.40	2.89
SRCPARAM L0043664	0.0	3.66	1.40	2.89
SRCPARAM L0043665	0.0	3.66	1.40	2.89
SRCPARAM L0043666	0.0	3.66	1.40	2.89
SRCPARAM L0043667	0.0	3.66	1.40	2.89
SRCPARAM L0043668	0.0	3.66	1.40	2.89
SRCPARAM L0043669	0.0	3.66	1.40	2.89
SRCPARAM L0043670	0.0	3.66	1.40	2.89
SRCPARAM L0043671	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE52

SRCPARAM L0043672	0.0	3.66	1.40	2.89
SRCPARAM L0043673	0.0	3.66	1.40	2.89
SRCPARAM L0043674	0.0	3.66	1.40	2.89
SRCPARAM L0043675	0.0	3.66	1.40	2.89
SRCPARAM L0043676	0.0	3.66	1.40	2.89
SRCPARAM L0043677	0.0	3.66	1.40	2.89
SRCPARAM L0043678	0.0	3.66	1.40	2.89
SRCPARAM L0043679	0.0	3.66	1.40	2.89
SRCPARAM L0043680	0.0	3.66	1.40	2.89
SRCPARAM L0043681	0.0	3.66	1.40	2.89
SRCPARAM L0043682	0.0	3.66	1.40	2.89
SRCPARAM L0043683	0.0	3.66	1.40	2.89
SRCPARAM L0043684	0.0	3.66	1.40	2.89
SRCPARAM L0043685	0.0	3.66	1.40	2.89



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SRCPARAM L0043686	0.0	3.66	1.40	2.89
SRCPARAM L0043687	0.0	3.66	1.40	2.89
SRCPARAM L0043688	0.0	3.66	1.40	2.89
SRCPARAM L0043689	0.0	3.66	1.40	2.89
SRCPARAM L0043690	0.0	3.66	1.40	2.89
SRCPARAM L0043691	0.0	3.66	1.40	2.89
SRCPARAM L0043692	0.0	3.66	1.40	2.89
SRCPARAM L0043693	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE53

SRCPARAM L0043694	0.0	3.66	1.40	2.89
SRCPARAM L0043695	0.0	3.66	1.40	2.89
SRCPARAM L0043696	0.0	3.66	1.40	2.89
SRCPARAM L0043697	0.0	3.66	1.40	2.89
SRCPARAM L0043698	0.0	3.66	1.40	2.89
SRCPARAM L0043699	0.0	3.66	1.40	2.89
SRCPARAM L0043700	0.0	3.66	1.40	2.89
SRCPARAM L0043701	0.0	3.66	1.40	2.89
SRCPARAM L0043702	0.0	3.66	1.40	2.89
SRCPARAM L0043703	0.0	3.66	1.40	2.89
SRCPARAM L0043704	0.0	3.66	1.40	2.89
SRCPARAM L0043705	0.0	3.66	1.40	2.89
SRCPARAM L0043706	0.0	3.66	1.40	2.89
SRCPARAM L0043707	0.0	3.66	1.40	2.89
SRCPARAM L0043708	0.0	3.66	1.40	2.89
SRCPARAM L0043709	0.0	3.66	1.40	2.89
SRCPARAM L0043710	0.0	3.66	1.40	2.89
SRCPARAM L0043711	0.0	3.66	1.40	2.89
SRCPARAM L0043712	0.0	3.66	1.40	2.89
SRCPARAM L0043713	0.0	3.66	1.40	2.89
SRCPARAM L0043714	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE54

SRCPARAM L0043715	0.0	3.66	1.40	2.89
SRCPARAM L0043716	0.0	3.66	1.40	2.89
SRCPARAM L0043717	0.0	3.66	1.40	2.89
SRCPARAM L0043718	0.0	3.66	1.40	2.89
SRCPARAM L0043719	0.0	3.66	1.40	2.89
SRCPARAM L0043720	0.0	3.66	1.40	2.89
SRCPARAM L0043721	0.0	3.66	1.40	2.89
SRCPARAM L0043722	0.0	3.66	1.40	2.89
SRCPARAM L0043723	0.0	3.66	1.40	2.89
SRCPARAM L0043724	0.0	3.66	1.40	2.89
SRCPARAM L0043725	0.0	3.66	1.40	2.89
SRCPARAM L0043726	0.0	3.66	1.40	2.89
SRCPARAM L0043727	0.0	3.66	1.40	2.89
SRCPARAM L0043728	0.0	3.66	1.40	2.89
SRCPARAM L0043729	0.0	3.66	1.40	2.89

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SRCPARAM L0043730	0.0	3.66	1.40	2.89
SRCPARAM L0043731	0.0	3.66	1.40	2.89
SRCPARAM L0043732	0.0	3.66	1.40	2.89
SRCPARAM L0043733	0.0	3.66	1.40	2.89
SRCPARAM L0043734	0.0	3.66	1.40	2.89
SRCPARAM L0043735	0.0	3.66	1.40	2.89
SRCPARAM L0043736	0.0	3.66	1.40	2.89
SRCPARAM L0043737	0.0	3.66	1.40	2.89
SRCPARAM L0043738	0.0	3.66	1.40	2.89
SRCPARAM L0043739	0.0	3.66	1.40	2.89
SRCPARAM L0043740	0.0	3.66	1.40	2.89
SRCPARAM L0043741	0.0	3.66	1.40	2.89
SRCPARAM L0043742	0.0	3.66	1.40	2.89
SRCPARAM L0043743	0.0	3.66	1.40	2.89
SRCPARAM L0043744	0.0	3.66	1.40	2.89
SRCPARAM L0043745	0.0	3.66	1.40	2.89
SRCPARAM L0043746	0.0	3.66	1.40	2.89
SRCPARAM L0043747	0.0	3.66	1.40	2.89
SRCPARAM L0043748	0.0	3.66	1.40	2.89
SRCPARAM L0043749	0.0	3.66	1.40	2.89
SRCPARAM L0043750	0.0	3.66	1.40	2.89
SRCPARAM L0043751	0.0	3.66	1.40	2.89
SRCPARAM L0043752	0.0	3.66	1.40	2.89
SRCPARAM L0043753	0.0	3.66	1.40	2.89
SRCPARAM L0043754	0.0	3.66	1.40	2.89
SRCPARAM L0043755	0.0	3.66	1.40	2.89
SRCPARAM L0043756	0.0	3.66	1.40	2.89
SRCPARAM L0043757	0.0	3.66	1.40	2.89
SRCPARAM L0043758	0.0	3.66	1.40	2.89
SRCPARAM L0043759	0.0	3.66	1.40	2.89
SRCPARAM L0043760	0.0	3.66	1.40	2.89
SRCPARAM L0043761	0.0	3.66	1.40	2.89
SRCPARAM L0043762	0.0	3.66	1.40	2.89
SRCPARAM L0043763	0.0	3.66	1.40	2.89
SRCPARAM L0043764	0.0	3.66	1.40	2.89
SRCPARAM L0043765	0.0	3.66	1.40	2.89
SRCPARAM L0043766	0.0	3.66	1.40	2.89
SRCPARAM L0043767	0.0	3.66	1.40	2.89
SRCPARAM L0043768	0.0	3.66	1.40	2.89
SRCPARAM L0043769	0.0	3.66	1.40	2.89
SRCPARAM L0043770	0.0	3.66	1.40	2.89
SRCPARAM L0043771	0.0	3.66	1.40	2.89
SRCPARAM L0043772	0.0	3.66	1.40	2.89
SRCPARAM L0043773	0.0	3.66	1.40	2.89
SRCPARAM L0043774	0.0	3.66	1.40	2.89
SRCPARAM L0043775	0.0	3.66	1.40	2.89
SRCPARAM L0043776	0.0	3.66	1.40	2.89
SRCPARAM L0043777	0.0	3.66	1.40	2.89

SOL\_operations\_rev2.ADI

SRCPARAM L0043778	0.0	3.66	1.40	2.89
SRCPARAM L0043779	0.0	3.66	1.40	2.89
SRCPARAM L0043780	0.0	3.66	1.40	2.89
SRCPARAM L0043781	0.0	3.66	1.40	2.89
SRCPARAM L0043782	0.0	3.66	1.40	2.89
SRCPARAM L0043783	0.0	3.66	1.40	2.89
SRCPARAM L0043784	0.0	3.66	1.40	2.89
SRCPARAM L0043785	0.0	3.66	1.40	2.89
SRCPARAM L0043786	0.0	3.66	1.40	2.89
SRCPARAM L0043787	0.0	3.66	1.40	2.89
SRCPARAM L0043788	0.0	3.66	1.40	2.89
SRCPARAM L0043789	0.0	3.66	1.40	2.89
SRCPARAM L0043790	0.0	3.66	1.40	2.89
SRCPARAM L0043791	0.0	3.66	1.40	2.89
SRCPARAM L0043792	0.0	3.66	1.40	2.89
SRCPARAM L0043793	0.0	3.66	1.40	2.89
SRCPARAM L0043794	0.0	3.66	1.40	2.89
SRCPARAM L0043795	0.0	3.66	1.40	2.89
SRCPARAM L0043796	0.0	3.66	1.40	2.89
SRCPARAM L0043797	0.0	3.66	1.40	2.89
SRCPARAM L0043798	0.0	3.66	1.40	2.89
SRCPARAM L0043799	0.0	3.66	1.40	2.89
SRCPARAM L0043800	0.0	3.66	1.40	2.89
SRCPARAM L0043801	0.0	3.66	1.40	2.89
SRCPARAM L0043802	0.0	3.66	1.40	2.89
SRCPARAM L0043803	0.0	3.66	1.40	2.89
SRCPARAM L0043804	0.0	3.66	1.40	2.89
SRCPARAM L0043805	0.0	3.66	1.40	2.89
SRCPARAM L0043806	0.0	3.66	1.40	2.89
SRCPARAM L0043807	0.0	3.66	1.40	2.89
SRCPARAM L0043808	0.0	3.66	1.40	2.89
SRCPARAM L0043809	0.0	3.66	1.40	2.89
SRCPARAM L0043810	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE55

SRCPARAM L0043811	0.0	3.66	1.40	2.89
SRCPARAM L0043812	0.0	3.66	1.40	2.89
SRCPARAM L0043813	0.0	3.66	1.40	2.89
SRCPARAM L0043814	0.0	3.66	1.40	2.89
SRCPARAM L0043815	0.0	3.66	1.40	2.89
SRCPARAM L0043816	0.0	3.66	1.40	2.89
SRCPARAM L0043817	0.0	3.66	1.40	2.89
SRCPARAM L0043818	0.0	3.66	1.40	2.89
SRCPARAM L0043819	0.0	3.66	1.40	2.89
SRCPARAM L0043820	0.0	3.66	1.40	2.89
SRCPARAM L0043821	0.0	3.66	1.40	2.89
SRCPARAM L0043822	0.0	3.66	1.40	2.89
SRCPARAM L0043823	0.0	3.66	1.40	2.89

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SRCPARAM L0043824	0.0	3.66	1.40	2.89
SRCPARAM L0043825	0.0	3.66	1.40	2.89
SRCPARAM L0043826	0.0	3.66	1.40	2.89
SRCPARAM L0043827	0.0	3.66	1.40	2.89
SRCPARAM L0043828	0.0	3.66	1.40	2.89
SRCPARAM L0043829	0.0	3.66	1.40	2.89
SRCPARAM L0043830	0.0	3.66	1.40	2.89
SRCPARAM L0043831	0.0	3.66	1.40	2.89
SRCPARAM L0043832	0.0	3.66	1.40	2.89
SRCPARAM L0043833	0.0	3.66	1.40	2.89
SRCPARAM L0043834	0.0	3.66	1.40	2.89
SRCPARAM L0043835	0.0	3.66	1.40	2.89
SRCPARAM L0043836	0.0	3.66	1.40	2.89
SRCPARAM L0043837	0.0	3.66	1.40	2.89
SRCPARAM L0043838	0.0	3.66	1.40	2.89
SRCPARAM L0043839	0.0	3.66	1.40	2.89
SRCPARAM L0043840	0.0	3.66	1.40	2.89
SRCPARAM L0043841	0.0	3.66	1.40	2.89
SRCPARAM L0043842	0.0	3.66	1.40	2.89
SRCPARAM L0043843	0.0	3.66	1.40	2.89
SRCPARAM L0043844	0.0	3.66	1.40	2.89
SRCPARAM L0043845	0.0	3.66	1.40	2.89
SRCPARAM L0043846	0.0	3.66	1.40	2.89
SRCPARAM L0043847	0.0	3.66	1.40	2.89
SRCPARAM L0043848	0.0	3.66	1.40	2.89
SRCPARAM L0043849	0.0	3.66	1.40	2.89
SRCPARAM L0043850	0.0	3.66	1.40	2.89
SRCPARAM L0043851	0.0	3.66	1.40	2.89
SRCPARAM L0043852	0.0	3.66	1.40	2.89
SRCPARAM L0043853	0.0	3.66	1.40	2.89
SRCPARAM L0043854	0.0	3.66	1.40	2.89
SRCPARAM L0043855	0.0	3.66	1.40	2.89
SRCPARAM L0043856	0.0	3.66	1.40	2.89
SRCPARAM L0043857	0.0	3.66	1.40	2.89
SRCPARAM L0043858	0.0	3.66	1.40	2.89
SRCPARAM L0043859	0.0	3.66	1.40	2.89
SRCPARAM L0043860	0.0	3.66	1.40	2.89
SRCPARAM L0043861	0.0	3.66	1.40	2.89
SRCPARAM L0043862	0.0	3.66	1.40	2.89
SRCPARAM L0043863	0.0	3.66	1.40	2.89
SRCPARAM L0043864	0.0	3.66	1.40	2.89
SRCPARAM L0043865	0.0	3.66	1.40	2.89
SRCPARAM L0043866	0.0	3.66	1.40	2.89
SRCPARAM L0043867	0.0	3.66	1.40	2.89
SRCPARAM L0043868	0.0	3.66	1.40	2.89
SRCPARAM L0043869	0.0	3.66	1.40	2.89
SRCPARAM L0043870	0.0	3.66	1.40	2.89
SRCPARAM L0043871	0.0	3.66	1.40	2.89

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SRCPARAM L0043872	0.0	3.66	1.40	2.89
SRCPARAM L0043873	0.0	3.66	1.40	2.89
SRCPARAM L0043874	0.0	3.66	1.40	2.89
SRCPARAM L0043875	0.0	3.66	1.40	2.89
SRCPARAM L0043876	0.0	3.66	1.40	2.89
SRCPARAM L0043877	0.0	3.66	1.40	2.89
SRCPARAM L0043878	0.0	3.66	1.40	2.89
SRCPARAM L0043879	0.0	3.66	1.40	2.89
SRCPARAM L0043880	0.0	3.66	1.40	2.89
SRCPARAM L0043881	0.0	3.66	1.40	2.89
SRCPARAM L0043882	0.0	3.66	1.40	2.89
SRCPARAM L0043883	0.0	3.66	1.40	2.89
SRCPARAM L0043884	0.0	3.66	1.40	2.89
SRCPARAM L0043885	0.0	3.66	1.40	2.89
SRCPARAM L0043886	0.0	3.66	1.40	2.89
SRCPARAM L0043887	0.0	3.66	1.40	2.89
SRCPARAM L0043888	0.0	3.66	1.40	2.89
SRCPARAM L0043889	0.0	3.66	1.40	2.89
SRCPARAM L0043890	0.0	3.66	1.40	2.89
SRCPARAM L0043891	0.0	3.66	1.40	2.89
SRCPARAM L0043892	0.0	3.66	1.40	2.89
SRCPARAM L0043893	0.0	3.66	1.40	2.89
SRCPARAM L0043894	0.0	3.66	1.40	2.89
SRCPARAM L0043895	0.0	3.66	1.40	2.89
SRCPARAM L0043896	0.0	3.66	1.40	2.89
SRCPARAM L0043897	0.0	3.66	1.40	2.89
SRCPARAM L0043898	0.0	3.66	1.40	2.89
SRCPARAM L0043899	0.0	3.66	1.40	2.89
SRCPARAM L0043900	0.0	3.66	1.40	2.89
SRCPARAM L0043901	0.0	3.66	1.40	2.89
SRCPARAM L0043902	0.0	3.66	1.40	2.89
SRCPARAM L0043903	0.0	3.66	1.40	2.89
SRCPARAM L0043904	0.0	3.66	1.40	2.89
SRCPARAM L0043905	0.0	3.66	1.40	2.89
SRCPARAM L0043906	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE56

SRCPARAM L0043907	0.0	3.66	1.40	2.89
SRCPARAM L0043908	0.0	3.66	1.40	2.89
SRCPARAM L0043909	0.0	3.66	1.40	2.89
SRCPARAM L0043910	0.0	3.66	1.40	2.89
SRCPARAM L0043911	0.0	3.66	1.40	2.89
SRCPARAM L0043912	0.0	3.66	1.40	2.89
SRCPARAM L0043913	0.0	3.66	1.40	2.89
SRCPARAM L0043914	0.0	3.66	1.40	2.89
SRCPARAM L0043915	0.0	3.66	1.40	2.89
SRCPARAM L0043916	0.0	3.66	1.40	2.89
SRCPARAM L0043917	0.0	3.66	1.40	2.89

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SRCPARAM L0043918	0.0	3.66	1.40	2.89
SRCPARAM L0043919	0.0	3.66	1.40	2.89
SRCPARAM L0043920	0.0	3.66	1.40	2.89
SRCPARAM L0043921	0.0	3.66	1.40	2.89
SRCPARAM L0043922	0.0	3.66	1.40	2.89
SRCPARAM L0043923	0.0	3.66	1.40	2.89
SRCPARAM L0043924	0.0	3.66	1.40	2.89
SRCPARAM L0043925	0.0	3.66	1.40	2.89
SRCPARAM L0043926	0.0	3.66	1.40	2.89
SRCPARAM L0043927	0.0	3.66	1.40	2.89
SRCPARAM L0043928	0.0	3.66	1.40	2.89
SRCPARAM L0043929	0.0	3.66	1.40	2.89
SRCPARAM L0043930	0.0	3.66	1.40	2.89
SRCPARAM L0043931	0.0	3.66	1.40	2.89
SRCPARAM L0043932	0.0	3.66	1.40	2.89
SRCPARAM L0043933	0.0	3.66	1.40	2.89
SRCPARAM L0043934	0.0	3.66	1.40	2.89
SRCPARAM L0043935	0.0	3.66	1.40	2.89
SRCPARAM L0043936	0.0	3.66	1.40	2.89
SRCPARAM L0043937	0.0	3.66	1.40	2.89
SRCPARAM L0043938	0.0	3.66	1.40	2.89
SRCPARAM L0043939	0.0	3.66	1.40	2.89
SRCPARAM L0043940	0.0	3.66	1.40	2.89
SRCPARAM L0043941	0.0	3.66	1.40	2.89
SRCPARAM L0043942	0.0	3.66	1.40	2.89
SRCPARAM L0043943	0.0	3.66	1.40	2.89
SRCPARAM L0043944	0.0	3.66	1.40	2.89
SRCPARAM L0043945	0.0	3.66	1.40	2.89
SRCPARAM L0043946	0.0	3.66	1.40	2.89
SRCPARAM L0043947	0.0	3.66	1.40	2.89
SRCPARAM L0043948	0.0	3.66	1.40	2.89
SRCPARAM L0043949	0.0	3.66	1.40	2.89
SRCPARAM L0043950	0.0	3.66	1.40	2.89
SRCPARAM L0043951	0.0	3.66	1.40	2.89
SRCPARAM L0043952	0.0	3.66	1.40	2.89
SRCPARAM L0043953	0.0	3.66	1.40	2.89
SRCPARAM L0043954	0.0	3.66	1.40	2.89
SRCPARAM L0043955	0.0	3.66	1.40	2.89
SRCPARAM L0043956	0.0	3.66	1.40	2.89
SRCPARAM L0043957	0.0	3.66	1.40	2.89
SRCPARAM L0043958	0.0	3.66	1.40	2.89
SRCPARAM L0043959	0.0	3.66	1.40	2.89
SRCPARAM L0043960	0.0	3.66	1.40	2.89
SRCPARAM L0043961	0.0	3.66	1.40	2.89
SRCPARAM L0043962	0.0	3.66	1.40	2.89
SRCPARAM L0043963	0.0	3.66	1.40	2.89
SRCPARAM L0043964	0.0	3.66	1.40	2.89
SRCPARAM L0043965	0.0	3.66	1.40	2.89

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SRCPARAM L0043966	0.0	3.66	1.40	2.89
SRCPARAM L0043967	0.0	3.66	1.40	2.89
SRCPARAM L0043968	0.0	3.66	1.40	2.89
SRCPARAM L0043969	0.0	3.66	1.40	2.89
SRCPARAM L0043970	0.0	3.66	1.40	2.89
SRCPARAM L0043971	0.0	3.66	1.40	2.89
SRCPARAM L0043972	0.0	3.66	1.40	2.89
SRCPARAM L0043973	0.0	3.66	1.40	2.89
SRCPARAM L0043974	0.0	3.66	1.40	2.89
SRCPARAM L0043975	0.0	3.66	1.40	2.89
SRCPARAM L0043976	0.0	3.66	1.40	2.89
SRCPARAM L0043977	0.0	3.66	1.40	2.89
SRCPARAM L0043978	0.0	3.66	1.40	2.89
SRCPARAM L0043979	0.0	3.66	1.40	2.89
SRCPARAM L0043980	0.0	3.66	1.40	2.89
SRCPARAM L0043981	0.0	3.66	1.40	2.89
SRCPARAM L0043982	0.0	3.66	1.40	2.89
SRCPARAM L0043983	0.0	3.66	1.40	2.89
SRCPARAM L0043984	0.0	3.66	1.40	2.89
SRCPARAM L0043985	0.0	3.66	1.40	2.89
SRCPARAM L0043986	0.0	3.66	1.40	2.89
SRCPARAM L0043987	0.0	3.66	1.40	2.89
SRCPARAM L0043988	0.0	3.66	1.40	2.89
SRCPARAM L0043989	0.0	3.66	1.40	2.89
SRCPARAM L0043990	0.0	3.66	1.40	2.89
SRCPARAM L0043991	0.0	3.66	1.40	2.89
SRCPARAM L0043992	0.0	3.66	1.40	2.89
SRCPARAM L0043993	0.0	3.66	1.40	2.89
SRCPARAM L0043994	0.0	3.66	1.40	2.89
SRCPARAM L0043995	0.0	3.66	1.40	2.89
SRCPARAM L0043996	0.0	3.66	1.40	2.89
SRCPARAM L0043997	0.0	3.66	1.40	2.89
SRCPARAM L0043998	0.0	3.66	1.40	2.89
SRCPARAM L0043999	0.0	3.66	1.40	2.89
SRCPARAM L0044000	0.0	3.66	1.40	2.89
SRCPARAM L0044001	0.0	3.66	1.40	2.89
SRCPARAM L0044002	0.0	3.66	1.40	2.89
SRCPARAM L0044003	0.0	3.66	1.40	2.89
SRCPARAM L0044004	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE57

SRCPARAM L0044005	0.0	3.66	1.40	2.89
SRCPARAM L0044006	0.0	3.66	1.40	2.89
SRCPARAM L0044007	0.0	3.66	1.40	2.89
SRCPARAM L0044008	0.0	3.66	1.40	2.89
SRCPARAM L0044009	0.0	3.66	1.40	2.89
SRCPARAM L0044010	0.0	3.66	1.40	2.89
SRCPARAM L0044011	0.0	3.66	1.40	2.89

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SRCPARAM L0044012	0.0	3.66	1.40	2.89
SRCPARAM L0044013	0.0	3.66	1.40	2.89
SRCPARAM L0044014	0.0	3.66	1.40	2.89
SRCPARAM L0044015	0.0	3.66	1.40	2.89
SRCPARAM L0044016	0.0	3.66	1.40	2.89
SRCPARAM L0044017	0.0	3.66	1.40	2.89
SRCPARAM L0044018	0.0	3.66	1.40	2.89
SRCPARAM L0044019	0.0	3.66	1.40	2.89
SRCPARAM L0044020	0.0	3.66	1.40	2.89
SRCPARAM L0044021	0.0	3.66	1.40	2.89
SRCPARAM L0044022	0.0	3.66	1.40	2.89
SRCPARAM L0044023	0.0	3.66	1.40	2.89
SRCPARAM L0044024	0.0	3.66	1.40	2.89
SRCPARAM L0044025	0.0	3.66	1.40	2.89
SRCPARAM L0044026	0.0	3.66	1.40	2.89
SRCPARAM L0044027	0.0	3.66	1.40	2.89
SRCPARAM L0044028	0.0	3.66	1.40	2.89
SRCPARAM L0044029	0.0	3.66	1.40	2.89
SRCPARAM L0044030	0.0	3.66	1.40	2.89
SRCPARAM L0044031	0.0	3.66	1.40	2.89
SRCPARAM L0044032	0.0	3.66	1.40	2.89
SRCPARAM L0044033	0.0	3.66	1.40	2.89
SRCPARAM L0044034	0.0	3.66	1.40	2.89
SRCPARAM L0044035	0.0	3.66	1.40	2.89
SRCPARAM L0044036	0.0	3.66	1.40	2.89
SRCPARAM L0044037	0.0	3.66	1.40	2.89
SRCPARAM L0044038	0.0	3.66	1.40	2.89
SRCPARAM L0044039	0.0	3.66	1.40	2.89
SRCPARAM L0044040	0.0	3.66	1.40	2.89
SRCPARAM L0044041	0.0	3.66	1.40	2.89
SRCPARAM L0044042	0.0	3.66	1.40	2.89
SRCPARAM L0044043	0.0	3.66	1.40	2.89
SRCPARAM L0044044	0.0	3.66	1.40	2.89
SRCPARAM L0044045	0.0	3.66	1.40	2.89
SRCPARAM L0044046	0.0	3.66	1.40	2.89
SRCPARAM L0044047	0.0	3.66	1.40	2.89
SRCPARAM L0044048	0.0	3.66	1.40	2.89
SRCPARAM L0044049	0.0	3.66	1.40	2.89
SRCPARAM L0044050	0.0	3.66	1.40	2.89
SRCPARAM L0044051	0.0	3.66	1.40	2.89
SRCPARAM L0044052	0.0	3.66	1.40	2.89
SRCPARAM L0044053	0.0	3.66	1.40	2.89
SRCPARAM L0044054	0.0	3.66	1.40	2.89
SRCPARAM L0044055	0.0	3.66	1.40	2.89
SRCPARAM L0044056	0.0	3.66	1.40	2.89
SRCPARAM L0044057	0.0	3.66	1.40	2.89
SRCPARAM L0044058	0.0	3.66	1.40	2.89
SRCPARAM L0044059	0.0	3.66	1.40	2.89



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SRCPARAM L0044060	0.0	3.66	1.40	2.89
SRCPARAM L0044061	0.0	3.66	1.40	2.89
SRCPARAM L0044062	0.0	3.66	1.40	2.89
SRCPARAM L0044063	0.0	3.66	1.40	2.89
SRCPARAM L0044064	0.0	3.66	1.40	2.89
SRCPARAM L0044065	0.0	3.66	1.40	2.89
SRCPARAM L0044066	0.0	3.66	1.40	2.89
SRCPARAM L0044067	0.0	3.66	1.40	2.89
SRCPARAM L0044068	0.0	3.66	1.40	2.89
SRCPARAM L0044069	0.0	3.66	1.40	2.89
SRCPARAM L0044070	0.0	3.66	1.40	2.89
SRCPARAM L0044071	0.0	3.66	1.40	2.89
SRCPARAM L0044072	0.0	3.66	1.40	2.89
SRCPARAM L0044073	0.0	3.66	1.40	2.89
SRCPARAM L0044074	0.0	3.66	1.40	2.89
SRCPARAM L0044075	0.0	3.66	1.40	2.89
SRCPARAM L0044076	0.0	3.66	1.40	2.89
SRCPARAM L0044077	0.0	3.66	1.40	2.89
SRCPARAM L0044078	0.0	3.66	1.40	2.89
SRCPARAM L0044079	0.0	3.66	1.40	2.89
SRCPARAM L0044080	0.0	3.66	1.40	2.89
SRCPARAM L0044081	0.0	3.66	1.40	2.89
SRCPARAM L0044082	0.0	3.66	1.40	2.89
SRCPARAM L0044083	0.0	3.66	1.40	2.89
SRCPARAM L0044084	0.0	3.66	1.40	2.89
SRCPARAM L0044085	0.0	3.66	1.40	2.89
SRCPARAM L0044086	0.0	3.66	1.40	2.89
SRCPARAM L0044087	0.0	3.66	1.40	2.89
SRCPARAM L0044088	0.0	3.66	1.40	2.89
SRCPARAM L0044089	0.0	3.66	1.40	2.89
SRCPARAM L0044090	0.0	3.66	1.40	2.89
SRCPARAM L0044091	0.0	3.66	1.40	2.89
SRCPARAM L0044092	0.0	3.66	1.40	2.89
SRCPARAM L0044093	0.0	3.66	1.40	2.89
SRCPARAM L0044094	0.0	3.66	1.40	2.89
SRCPARAM L0044095	0.0	3.66	1.40	2.89
SRCPARAM L0044096	0.0	3.66	1.40	2.89
SRCPARAM L0044097	0.0	3.66	1.40	2.89
SRCPARAM L0044098	0.0	3.66	1.40	2.89
SRCPARAM L0044099	0.0	3.66	1.40	2.89
SRCPARAM L0044100	0.0	3.66	1.40	2.89
SRCPARAM L0044101	0.0	3.66	1.40	2.89
SRCPARAM L0044102	0.0	3.66	1.40	2.89
SRCPARAM L0044103	0.0	3.66	1.40	2.89
SRCPARAM L0044104	0.0	3.66	1.40	2.89
SRCPARAM L0044105	0.0	3.66	1.40	2.89
SRCPARAM L0044106	0.0	3.66	1.40	2.89
SRCPARAM L0044107	0.0	3.66	1.40	2.89

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SRCPARAM L0044108	0.0	3.66	1.40	2.89
SRCPARAM L0044109	0.0	3.66	1.40	2.89
SRCPARAM L0044110	0.0	3.66	1.40	2.89
SRCPARAM L0044111	0.0	3.66	1.40	2.89
SRCPARAM L0044112	0.0	3.66	1.40	2.89
SRCPARAM L0044113	0.0	3.66	1.40	2.89
SRCPARAM L0044114	0.0	3.66	1.40	2.89
SRCPARAM L0044115	0.0	3.66	1.40	2.89
SRCPARAM L0044116	0.0	3.66	1.40	2.89
SRCPARAM L0044117	0.0	3.66	1.40	2.89
SRCPARAM L0044118	0.0	3.66	1.40	2.89
SRCPARAM L0044119	0.0	3.66	1.40	2.89
SRCPARAM L0044120	0.0	3.66	1.40	2.89
SRCPARAM L0044121	0.0	3.66	1.40	2.89
SRCPARAM L0044122	0.0	3.66	1.40	2.89
SRCPARAM L0044123	0.0	3.66	1.40	2.89
SRCPARAM L0044124	0.0	3.66	1.40	2.89
SRCPARAM L0044125	0.0	3.66	1.40	2.89
SRCPARAM L0044126	0.0	3.66	1.40	2.89
SRCPARAM L0044127	0.0	3.66	1.40	2.89
SRCPARAM L0044128	0.0	3.66	1.40	2.89
SRCPARAM L0044129	0.0	3.66	1.40	2.89
SRCPARAM L0044130	0.0	3.66	1.40	2.89
SRCPARAM L0044131	0.0	3.66	1.40	2.89
SRCPARAM L0044132	0.0	3.66	1.40	2.89
SRCPARAM L0044133	0.0	3.66	1.40	2.89
SRCPARAM L0044134	0.0	3.66	1.40	2.89
SRCPARAM L0044135	0.0	3.66	1.40	2.89
SRCPARAM L0044136	0.0	3.66	1.40	2.89
SRCPARAM L0044137	0.0	3.66	1.40	2.89
SRCPARAM L0044138	0.0	3.66	1.40	2.89
SRCPARAM L0044139	0.0	3.66	1.40	2.89
SRCPARAM L0044140	0.0	3.66	1.40	2.89
SRCPARAM L0044141	0.0	3.66	1.40	2.89
SRCPARAM L0044142	0.0	3.66	1.40	2.89
SRCPARAM L0044143	0.0	3.66	1.40	2.89
SRCPARAM L0044144	0.0	3.66	1.40	2.89
SRCPARAM L0044145	0.0	3.66	1.40	2.89
SRCPARAM L0044146	0.0	3.66	1.40	2.89
SRCPARAM L0044147	0.0	3.66	1.40	2.89
SRCPARAM L0044148	0.0	3.66	1.40	2.89
SRCPARAM L0044149	0.0	3.66	1.40	2.89
SRCPARAM L0044150	0.0	3.66	1.40	2.89
SRCPARAM L0044151	0.0	3.66	1.40	2.89
SRCPARAM L0044152	0.0	3.66	1.40	2.89
SRCPARAM L0044153	0.0	3.66	1.40	2.89
SRCPARAM L0044154	0.0	3.66	1.40	2.89
SRCPARAM L0044155	0.0	3.66	1.40	2.89

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SRCPARAM L0044156	0.0	3.66	1.40	2.89
SRCPARAM L0044157	0.0	3.66	1.40	2.89
SRCPARAM L0044158	0.0	3.66	1.40	2.89
SRCPARAM L0044159	0.0	3.66	1.40	2.89
SRCPARAM L0044160	0.0	3.66	1.40	2.89
SRCPARAM L0044161	0.0	3.66	1.40	2.89
SRCPARAM L0044162	0.0	3.66	1.40	2.89
SRCPARAM L0044163	0.0	3.66	1.40	2.89
SRCPARAM L0044164	0.0	3.66	1.40	2.89
SRCPARAM L0044165	0.0	3.66	1.40	2.89
SRCPARAM L0044166	0.0	3.66	1.40	2.89
SRCPARAM L0044167	0.0	3.66	1.40	2.89
SRCPARAM L0044168	0.0	3.66	1.40	2.89
SRCPARAM L0044169	0.0	3.66	1.40	2.89
SRCPARAM L0044170	0.0	3.66	1.40	2.89

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SRCPARAM L0044171	0.0	3.66	1.40	2.89
SRCPARAM L0044172	0.0	3.66	1.40	2.89
SRCPARAM L0044173	0.0	3.66	1.40	2.89
SRCPARAM L0044174	0.0	3.66	1.40	2.89
SRCPARAM L0044175	0.0	3.66	1.40	2.89
SRCPARAM L0044176	0.0	3.66	1.40	2.89
SRCPARAM L0044177	0.0	3.66	1.40	2.89
SRCPARAM L0044178	0.0	3.66	1.40	2.89
SRCPARAM L0044179	0.0	3.66	1.40	2.89
SRCPARAM L0044180	0.0	3.66	1.40	2.89
SRCPARAM L0044181	0.0	3.66	1.40	2.89
SRCPARAM L0044182	0.0	3.66	1.40	2.89
SRCPARAM L0044183	0.0	3.66	1.40	2.89
SRCPARAM L0044184	0.0	3.66	1.40	2.89
SRCPARAM L0044185	0.0	3.66	1.40	2.89
SRCPARAM L0044186	0.0	3.66	1.40	2.89
SRCPARAM L0044187	0.0	3.66	1.40	2.89
SRCPARAM L0044188	0.0	3.66	1.40	2.89
SRCPARAM L0044189	0.0	3.66	1.40	2.89
SRCPARAM L0044190	0.0	3.66	1.40	2.89
SRCPARAM L0044191	0.0	3.66	1.40	2.89
SRCPARAM L0044192	0.0	3.66	1.40	2.89
SRCPARAM L0044193	0.0	3.66	1.40	2.89
SRCPARAM L0044194	0.0	3.66	1.40	2.89
SRCPARAM L0044195	0.0	3.66	1.40	2.89
SRCPARAM L0044196	0.0	3.66	1.40	2.89
SRCPARAM L0044197	0.0	3.66	1.40	2.89
SRCPARAM L0044198	0.0	3.66	1.40	2.89
SRCPARAM L0044199	0.0	3.66	1.40	2.89
SRCPARAM L0044200	0.0	3.66	1.40	2.89
SRCPARAM L0044201	0.0	3.66	1.40	2.89

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SRCPARAM L0044202	0.0	3.66	1.40	2.89
SRCPARAM L0044203	0.0	3.66	1.40	2.89
SRCPARAM L0044204	0.0	3.66	1.40	2.89
SRCPARAM L0044205	0.0	3.66	1.40	2.89
SRCPARAM L0044206	0.0	3.66	1.40	2.89
SRCPARAM L0044207	0.0	3.66	1.40	2.89
SRCPARAM L0044208	0.0	3.66	1.40	2.89
SRCPARAM L0044209	0.0	3.66	1.40	2.89
SRCPARAM L0044210	0.0	3.66	1.40	2.89
SRCPARAM L0044211	0.0	3.66	1.40	2.89
SRCPARAM L0044212	0.0	3.66	1.40	2.89
SRCPARAM L0044213	0.0	3.66	1.40	2.89
SRCPARAM L0044214	0.0	3.66	1.40	2.89
SRCPARAM L0044215	0.0	3.66	1.40	2.89
SRCPARAM L0044216	0.0	3.66	1.40	2.89
SRCPARAM L0044217	0.0	3.66	1.40	2.89
SRCPARAM L0044218	0.0	3.66	1.40	2.89
SRCPARAM L0044219	0.0	3.66	1.40	2.89
SRCPARAM L0044220	0.0	3.66	1.40	2.89
SRCPARAM L0044221	0.0	3.66	1.40	2.89
SRCPARAM L0044222	0.0	3.66	1.40	2.89
SRCPARAM L0044223	0.0	3.66	1.40	2.89
SRCPARAM L0044224	0.0	3.66	1.40	2.89
SRCPARAM L0044225	0.0	3.66	1.40	2.89
SRCPARAM L0044226	0.0	3.66	1.40	2.89
SRCPARAM L0044227	0.0	3.66	1.40	2.89
SRCPARAM L0044228	0.0	3.66	1.40	2.89
SRCPARAM L0044229	0.0	3.66	1.40	2.89
SRCPARAM L0044230	0.0	3.66	1.40	2.89
SRCPARAM L0044231	0.0	3.66	1.40	2.89
SRCPARAM L0044232	0.0	3.66	1.40	2.89
SRCPARAM L0044233	0.0	3.66	1.40	2.89
SRCPARAM L0044234	0.0	3.66	1.40	2.89
SRCPARAM L0044235	0.0	3.66	1.40	2.89
SRCPARAM L0044236	0.0	3.66	1.40	2.89
SRCPARAM L0044237	0.0	3.66	1.40	2.89
SRCPARAM L0044238	0.0	3.66	1.40	2.89
SRCPARAM L0044239	0.0	3.66	1.40	2.89
SRCPARAM L0044240	0.0	3.66	1.40	2.89
SRCPARAM L0044241	0.0	3.66	1.40	2.89
SRCPARAM L0044242	0.0	3.66	1.40	2.89
SRCPARAM L0044243	0.0	3.66	1.40	2.89
SRCPARAM L0044244	0.0	3.66	1.40	2.89
SRCPARAM L0044245	0.0	3.66	1.40	2.89
SRCPARAM L0044246	0.0	3.66	1.40	2.89
SRCPARAM L0044247	0.0	3.66	1.40	2.89
SRCPARAM L0044248	0.0	3.66	1.40	2.89
SRCPARAM L0044249	0.0	3.66	1.40	2.89

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SRCPARAM L0044250	0.0	3.66	1.40	2.89
SRCPARAM L0044251	0.0	3.66	1.40	2.89
SRCPARAM L0044252	0.0	3.66	1.40	2.89
SRCPARAM L0044253	0.0	3.66	1.40	2.89
SRCPARAM L0044254	0.0	3.66	1.40	2.89
SRCPARAM L0044255	0.0	3.66	1.40	2.89
SRCPARAM L0044256	0.0	3.66	1.40	2.89
SRCPARAM L0044257	0.0	3.66	1.40	2.89
SRCPARAM L0044258	0.0	3.66	1.40	2.89
SRCPARAM L0044259	0.0	3.66	1.40	2.89
SRCPARAM L0044260	0.0	3.66	1.40	2.89
SRCPARAM L0044261	0.0	3.66	1.40	2.89
SRCPARAM L0044262	0.0	3.66	1.40	2.89
SRCPARAM L0044263	0.0	3.66	1.40	2.89
SRCPARAM L0044264	0.0	3.66	1.40	2.89
SRCPARAM L0044265	0.0	3.66	1.40	2.89
SRCPARAM L0044266	0.0	3.66	1.40	2.89
SRCPARAM L0044267	0.0	3.66	1.40	2.89
SRCPARAM L0044268	0.0	3.66	1.40	2.89
SRCPARAM L0044269	0.0	3.66	1.40	2.89
SRCPARAM L0044270	0.0	3.66	1.40	2.89
SRCPARAM L0044271	0.0	3.66	1.40	2.89
SRCPARAM L0044272	0.0	3.66	1.40	2.89
SRCPARAM L0044273	0.0	3.66	1.40	2.89
SRCPARAM L0044274	0.0	3.66	1.40	2.89
SRCPARAM L0044275	0.0	3.66	1.40	2.89
SRCPARAM L0044276	0.0	3.66	1.40	2.89
SRCPARAM L0044277	0.0	3.66	1.40	2.89
SRCPARAM L0044278	0.0	3.66	1.40	2.89
SRCPARAM L0044279	0.0	3.66	1.40	2.89
SRCPARAM L0044280	0.0	3.66	1.40	2.89
SRCPARAM L0044281	0.0	3.66	1.40	2.89
SRCPARAM L0044282	0.0	3.66	1.40	2.89
SRCPARAM L0044283	0.0	3.66	1.40	2.89
SRCPARAM L0044284	0.0	3.66	1.40	2.89
SRCPARAM L0044285	0.0	3.66	1.40	2.89
SRCPARAM L0044286	0.0	3.66	1.40	2.89
SRCPARAM L0044287	0.0	3.66	1.40	2.89
SRCPARAM L0044288	0.0	3.66	1.40	2.89
SRCPARAM L0044289	0.0	3.66	1.40	2.89
SRCPARAM L0044290	0.0	3.66	1.40	2.89
SRCPARAM L0044291	0.0	3.66	1.40	2.89
SRCPARAM L0044292	0.0	3.66	1.40	2.89
SRCPARAM L0044293	0.0	3.66	1.40	2.89
SRCPARAM L0044294	0.0	3.66	1.40	2.89
SRCPARAM L0044295	0.0	3.66	1.40	2.89
SRCPARAM L0044296	0.0	3.66	1.40	2.89
SRCPARAM L0044297	0.0	3.66	1.40	2.89

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SRCPARAM L0044298	0.0	3.66	1.40	2.89
SRCPARAM L0044299	0.0	3.66	1.40	2.89
SRCPARAM L0044300	0.0	3.66	1.40	2.89
SRCPARAM L0044301	0.0	3.66	1.40	2.89
SRCPARAM L0044302	0.0	3.66	1.40	2.89
SRCPARAM L0044303	0.0	3.66	1.40	2.89
SRCPARAM L0044304	0.0	3.66	1.40	2.89
SRCPARAM L0044305	0.0	3.66	1.40	2.89
SRCPARAM L0044306	0.0	3.66	1.40	2.89
SRCPARAM L0044307	0.0	3.66	1.40	2.89
SRCPARAM L0044308	0.0	3.66	1.40	2.89
SRCPARAM L0044309	0.0	3.66	1.40	2.89
SRCPARAM L0044310	0.0	3.66	1.40	2.89
SRCPARAM L0044311	0.0	3.66	1.40	2.89
SRCPARAM L0044312	0.0	3.66	1.40	2.89
SRCPARAM L0044313	0.0	3.66	1.40	2.89
SRCPARAM L0044314	0.0	3.66	1.40	2.89
SRCPARAM L0044315	0.0	3.66	1.40	2.89
SRCPARAM L0044316	0.0	3.66	1.40	2.89
SRCPARAM L0044317	0.0	3.66	1.40	2.89
SRCPARAM L0044318	0.0	3.66	1.40	2.89
SRCPARAM L0044319	0.0	3.66	1.40	2.89
SRCPARAM L0044320	0.0	3.66	1.40	2.89
SRCPARAM L0044321	0.0	3.66	1.40	2.89
SRCPARAM L0044322	0.0	3.66	1.40	2.89
SRCPARAM L0044323	0.0	3.66	1.40	2.89
SRCPARAM L0044324	0.0	3.66	1.40	2.89
SRCPARAM L0044325	0.0	3.66	1.40	2.89
SRCPARAM L0044326	0.0	3.66	1.40	2.89
SRCPARAM L0044327	0.0	3.66	1.40	2.89
SRCPARAM L0044328	0.0	3.66	1.40	2.89
SRCPARAM L0044329	0.0	3.66	1.40	2.89
SRCPARAM L0044330	0.0	3.66	1.40	2.89
SRCPARAM L0044331	0.0	3.66	1.40	2.89
SRCPARAM L0044332	0.0	3.66	1.40	2.89
SRCPARAM L0044333	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE59

SRCPARAM L0044334	0.0	3.66	1.40	2.89
SRCPARAM L0044335	0.0	3.66	1.40	2.89
SRCPARAM L0044336	0.0	3.66	1.40	2.89
SRCPARAM L0044337	0.0	3.66	1.40	2.89
SRCPARAM L0044338	0.0	3.66	1.40	2.89
SRCPARAM L0044339	0.0	3.66	1.40	2.89
SRCPARAM L0044340	0.0	3.66	1.40	2.89
SRCPARAM L0044341	0.0	3.66	1.40	2.89
SRCPARAM L0044342	0.0	3.66	1.40	2.89
SRCPARAM L0044343	0.0	3.66	1.40	2.89

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SRCPARAM L0044344	0.0	3.66	1.40	2.89
SRCPARAM L0044345	0.0	3.66	1.40	2.89
SRCPARAM L0044346	0.0	3.66	1.40	2.89
SRCPARAM L0044347	0.0	3.66	1.40	2.89
SRCPARAM L0044348	0.0	3.66	1.40	2.89
SRCPARAM L0044349	0.0	3.66	1.40	2.89
SRCPARAM L0044350	0.0	3.66	1.40	2.89
SRCPARAM L0044351	0.0	3.66	1.40	2.89
SRCPARAM L0044352	0.0	3.66	1.40	2.89
SRCPARAM L0044353	0.0	3.66	1.40	2.89
SRCPARAM L0044354	0.0	3.66	1.40	2.89
SRCPARAM L0044355	0.0	3.66	1.40	2.89
SRCPARAM L0044356	0.0	3.66	1.40	2.89
SRCPARAM L0044357	0.0	3.66	1.40	2.89
SRCPARAM L0044358	0.0	3.66	1.40	2.89
SRCPARAM L0044359	0.0	3.66	1.40	2.89
SRCPARAM L0044360	0.0	3.66	1.40	2.89
SRCPARAM L0044361	0.0	3.66	1.40	2.89
SRCPARAM L0044362	0.0	3.66	1.40	2.89
SRCPARAM L0044363	0.0	3.66	1.40	2.89
SRCPARAM L0044364	0.0	3.66	1.40	2.89
SRCPARAM L0044365	0.0	3.66	1.40	2.89
SRCPARAM L0044366	0.0	3.66	1.40	2.89
SRCPARAM L0044367	0.0	3.66	1.40	2.89
SRCPARAM L0044368	0.0	3.66	1.40	2.89
SRCPARAM L0044369	0.0	3.66	1.40	2.89
SRCPARAM L0044370	0.0	3.66	1.40	2.89
SRCPARAM L0044371	0.0	3.66	1.40	2.89
SRCPARAM L0044372	0.0	3.66	1.40	2.89
SRCPARAM L0044373	0.0	3.66	1.40	2.89
SRCPARAM L0044374	0.0	3.66	1.40	2.89
SRCPARAM L0044375	0.0	3.66	1.40	2.89
SRCPARAM L0044376	0.0	3.66	1.40	2.89
SRCPARAM L0044377	0.0	3.66	1.40	2.89
SRCPARAM L0044378	0.0	3.66	1.40	2.89
SRCPARAM L0044379	0.0	3.66	1.40	2.89
SRCPARAM L0044380	0.0	3.66	1.40	2.89
SRCPARAM L0044381	0.0	3.66	1.40	2.89
SRCPARAM L0044382	0.0	3.66	1.40	2.89
SRCPARAM L0044383	0.0	3.66	1.40	2.89
SRCPARAM L0044384	0.0	3.66	1.40	2.89
SRCPARAM L0044385	0.0	3.66	1.40	2.89
SRCPARAM L0044386	0.0	3.66	1.40	2.89
SRCPARAM L0044387	0.0	3.66	1.40	2.89
SRCPARAM L0044388	0.0	3.66	1.40	2.89
SRCPARAM L0044389	0.0	3.66	1.40	2.89
SRCPARAM L0044390	0.0	3.66	1.40	2.89
SRCPARAM L0044391	0.0	3.66	1.40	2.89

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SRCPARAM L0044392	0.0	3.66	1.40	2.89
SRCPARAM L0044393	0.0	3.66	1.40	2.89
SRCPARAM L0044394	0.0	3.66	1.40	2.89
SRCPARAM L0044395	0.0	3.66	1.40	2.89
SRCPARAM L0044396	0.0	3.66	1.40	2.89
SRCPARAM L0044397	0.0	3.66	1.40	2.89
SRCPARAM L0044398	0.0	3.66	1.40	2.89
SRCPARAM L0044399	0.0	3.66	1.40	2.89
SRCPARAM L0044400	0.0	3.66	1.40	2.89
SRCPARAM L0044401	0.0	3.66	1.40	2.89
SRCPARAM L0044402	0.0	3.66	1.40	2.89
SRCPARAM L0044403	0.0	3.66	1.40	2.89
SRCPARAM L0044404	0.0	3.66	1.40	2.89
SRCPARAM L0044405	0.0	3.66	1.40	2.89
SRCPARAM L0044406	0.0	3.66	1.40	2.89
SRCPARAM L0044407	0.0	3.66	1.40	2.89
SRCPARAM L0044408	0.0	3.66	1.40	2.89
SRCPARAM L0044409	0.0	3.66	1.40	2.89
SRCPARAM L0044410	0.0	3.66	1.40	2.89
SRCPARAM L0044411	0.0	3.66	1.40	2.89
SRCPARAM L0044412	0.0	3.66	1.40	2.89
SRCPARAM L0044413	0.0	3.66	1.40	2.89
SRCPARAM L0044414	0.0	3.66	1.40	2.89
SRCPARAM L0044415	0.0	3.66	1.40	2.89
SRCPARAM L0044416	0.0	3.66	1.40	2.89
SRCPARAM L0044417	0.0	3.66	1.40	2.89

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SRCPARAM L0044418	0.0	3.66	1.40	2.89
SRCPARAM L0044419	0.0	3.66	1.40	2.89
SRCPARAM L0044420	0.0	3.66	1.40	2.89
SRCPARAM L0044421	0.0	3.66	1.40	2.89
SRCPARAM L0044422	0.0	3.66	1.40	2.89
SRCPARAM L0044423	0.0	3.66	1.40	2.89
SRCPARAM L0044424	0.0	3.66	1.40	2.89
SRCPARAM L0044425	0.0	3.66	1.40	2.89
SRCPARAM L0044426	0.0	3.66	1.40	2.89
SRCPARAM L0044427	0.0	3.66	1.40	2.89
SRCPARAM L0044428	0.0	3.66	1.40	2.89
SRCPARAM L0044429	0.0	3.66	1.40	2.89
SRCPARAM L0044430	0.0	3.66	1.40	2.89
SRCPARAM L0044431	0.0	3.66	1.40	2.89
SRCPARAM L0044432	0.0	3.66	1.40	2.89
SRCPARAM L0044433	0.0	3.66	1.40	2.89
SRCPARAM L0044434	0.0	3.66	1.40	2.89
SRCPARAM L0044435	0.0	3.66	1.40	2.89
SRCPARAM L0044436	0.0	3.66	1.40	2.89
SRCPARAM L0044437	0.0	3.66	1.40	2.89



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SRCPARAM L0044438	0.0	3.66	1.40	2.89
SRCPARAM L0044439	0.0	3.66	1.40	2.89
SRCPARAM L0044440	0.0	3.66	1.40	2.89
SRCPARAM L0044441	0.0	3.66	1.40	2.89
SRCPARAM L0044442	0.0	3.66	1.40	2.89
SRCPARAM L0044443	0.0	3.66	1.40	2.89
SRCPARAM L0044444	0.0	3.66	1.40	2.89
SRCPARAM L0044445	0.0	3.66	1.40	2.89
SRCPARAM L0044446	0.0	3.66	1.40	2.89
SRCPARAM L0044447	0.0	3.66	1.40	2.89
SRCPARAM L0044448	0.0	3.66	1.40	2.89
SRCPARAM L0044449	0.0	3.66	1.40	2.89
SRCPARAM L0044450	0.0	3.66	1.40	2.89
SRCPARAM L0044451	0.0	3.66	1.40	2.89
SRCPARAM L0044452	0.0	3.66	1.40	2.89
SRCPARAM L0044453	0.0	3.66	1.40	2.89
SRCPARAM L0044454	0.0	3.66	1.40	2.89
SRCPARAM L0044455	0.0	3.66	1.40	2.89
SRCPARAM L0044456	0.0	3.66	1.40	2.89
SRCPARAM L0044457	0.0	3.66	1.40	2.89
SRCPARAM L0044458	0.0	3.66	1.40	2.89
SRCPARAM L0044459	0.0	3.66	1.40	2.89
SRCPARAM L0044460	0.0	3.66	1.40	2.89
SRCPARAM L0044461	0.0	3.66	1.40	2.89
SRCPARAM L0044462	0.0	3.66	1.40	2.89
SRCPARAM L0044463	0.0	3.66	1.40	2.89
SRCPARAM L0044464	0.0	3.66	1.40	2.89
SRCPARAM L0044465	0.0	3.66	1.40	2.89
SRCPARAM L0044466	0.0	3.66	1.40	2.89
SRCPARAM L0044467	0.0	3.66	1.40	2.89
SRCPARAM L0044468	0.0	3.66	1.40	2.89
SRCPARAM L0044469	0.0	3.66	1.40	2.89
SRCPARAM L0044470	0.0	3.66	1.40	2.89
SRCPARAM L0044471	0.0	3.66	1.40	2.89
SRCPARAM L0044472	0.0	3.66	1.40	2.89
SRCPARAM L0044473	0.0	3.66	1.40	2.89
SRCPARAM L0044474	0.0	3.66	1.40	2.89
SRCPARAM L0044475	0.0	3.66	1.40	2.89
SRCPARAM L0044476	0.0	3.66	1.40	2.89
SRCPARAM L0044477	0.0	3.66	1.40	2.89
SRCPARAM L0044478	0.0	3.66	1.40	2.89
SRCPARAM L0044479	0.0	3.66	1.40	2.89
SRCPARAM L0044480	0.0	3.66	1.40	2.89
SRCPARAM L0044481	0.0	3.66	1.40	2.89
SRCPARAM L0044482	0.0	3.66	1.40	2.89
SRCPARAM L0044483	0.0	3.66	1.40	2.89
SRCPARAM L0044484	0.0	3.66	1.40	2.89
SRCPARAM L0044485	0.0	3.66	1.40	2.89

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SRCPARAM L0044486	0.0	3.66	1.40	2.89
SRCPARAM L0044487	0.0	3.66	1.40	2.89
SRCPARAM L0044488	0.0	3.66	1.40	2.89
SRCPARAM L0044489	0.0	3.66	1.40	2.89
SRCPARAM L0044490	0.0	3.66	1.40	2.89
SRCPARAM L0044491	0.0	3.66	1.40	2.89
SRCPARAM L0044492	0.0	3.66	1.40	2.89
SRCPARAM L0044493	0.0	3.66	1.40	2.89
SRCPARAM L0044494	0.0	3.66	1.40	2.89
SRCPARAM L0044495	0.0	3.66	1.40	2.89
SRCPARAM L0044496	0.0	3.66	1.40	2.89
SRCPARAM L0044497	0.0	3.66	1.40	2.89
SRCPARAM L0044498	0.0	3.66	1.40	2.89
SRCPARAM L0044499	0.0	3.66	1.40	2.89
SRCPARAM L0044500	0.0	3.66	1.40	2.89
SRCPARAM L0044501	0.0	3.66	1.40	2.89
SRCPARAM L0044502	0.0	3.66	1.40	2.89
SRCPARAM L0044503	0.0	3.66	1.40	2.89
SRCPARAM L0044504	0.0	3.66	1.40	2.89
SRCPARAM L0044505	0.0	3.66	1.40	2.89
SRCPARAM L0044506	0.0	3.66	1.40	2.89
SRCPARAM L0044507	0.0	3.66	1.40	2.89
SRCPARAM L0044508	0.0	3.66	1.40	2.89
SRCPARAM L0044509	0.0	3.66	1.40	2.89
SRCPARAM L0044510	0.0	3.66	1.40	2.89
SRCPARAM L0044511	0.0	3.66	1.40	2.89
SRCPARAM L0044512	0.0	3.66	1.40	2.89
SRCPARAM L0044513	0.0	3.66	1.40	2.89
SRCPARAM L0044514	0.0	3.66	1.40	2.89
SRCPARAM L0044515	0.0	3.66	1.40	2.89
SRCPARAM L0044516	0.0	3.66	1.40	2.89
SRCPARAM L0044517	0.0	3.66	1.40	2.89
SRCPARAM L0044518	0.0	3.66	1.40	2.89
SRCPARAM L0044519	0.0	3.66	1.40	2.89
SRCPARAM L0044520	0.0	3.66	1.40	2.89
SRCPARAM L0044521	0.0	3.66	1.40	2.89
SRCPARAM L0044522	0.0	3.66	1.40	2.89
SRCPARAM L0044523	0.0	3.66	1.40	2.89
SRCPARAM L0044524	0.0	3.66	1.40	2.89
SRCPARAM L0044525	0.0	3.66	1.40	2.89
SRCPARAM L0044526	0.0	3.66	1.40	2.89
SRCPARAM L0044527	0.0	3.66	1.40	2.89
SRCPARAM L0044528	0.0	3.66	1.40	2.89
SRCPARAM L0044529	0.0	3.66	1.40	2.89
SRCPARAM L0044530	0.0	3.66	1.40	2.89
SRCPARAM L0044531	0.0	3.66	1.40	2.89
SRCPARAM L0044532	0.0	3.66	1.40	2.89
SRCPARAM L0044533	0.0	3.66	1.40	2.89

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SRCPARAM L0044534	0.0	3.66	1.40	2.89
SRCPARAM L0044535	0.0	3.66	1.40	2.89
SRCPARAM L0044536	0.0	3.66	1.40	2.89
SRCPARAM L0044537	0.0	3.66	1.40	2.89
SRCPARAM L0044538	0.0	3.66	1.40	2.89
SRCPARAM L0044539	0.0	3.66	1.40	2.89
SRCPARAM L0044540	0.0	3.66	1.40	2.89
SRCPARAM L0044541	0.0	3.66	1.40	2.89
SRCPARAM L0044542	0.0	3.66	1.40	2.89
SRCPARAM L0044543	0.0	3.66	1.40	2.89
SRCPARAM L0044544	0.0	3.66	1.40	2.89
SRCPARAM L0044545	0.0	3.66	1.40	2.89
SRCPARAM L0044546	0.0	3.66	1.40	2.89
SRCPARAM L0044547	0.0	3.66	1.40	2.89
SRCPARAM L0044548	0.0	3.66	1.40	2.89
SRCPARAM L0044549	0.0	3.66	1.40	2.89
SRCPARAM L0044550	0.0	3.66	1.40	2.89
SRCPARAM L0044551	0.0	3.66	1.40	2.89
SRCPARAM L0044552	0.0	3.66	1.40	2.89
SRCPARAM L0044553	0.0	3.66	1.40	2.89
SRCPARAM L0044554	0.0	3.66	1.40	2.89
SRCPARAM L0044555	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE61

SRCPARAM L0044556	0.0	3.66	1.40	2.89
SRCPARAM L0044557	0.0	3.66	1.40	2.89
SRCPARAM L0044558	0.0	3.66	1.40	2.89
SRCPARAM L0044559	0.0	3.66	1.40	2.89
SRCPARAM L0044560	0.0	3.66	1.40	2.89
SRCPARAM L0044561	0.0	3.66	1.40	2.89
SRCPARAM L0044562	0.0	3.66	1.40	2.89
SRCPARAM L0044563	0.0	3.66	1.40	2.89
SRCPARAM L0044564	0.0	3.66	1.40	2.89
SRCPARAM L0044565	0.0	3.66	1.40	2.89
SRCPARAM L0044566	0.0	3.66	1.40	2.89
SRCPARAM L0044567	0.0	3.66	1.40	2.89
SRCPARAM L0044568	0.0	3.66	1.40	2.89
SRCPARAM L0044569	0.0	3.66	1.40	2.89
SRCPARAM L0044570	0.0	3.66	1.40	2.89
SRCPARAM L0044571	0.0	3.66	1.40	2.89
SRCPARAM L0044572	0.0	3.66	1.40	2.89
SRCPARAM L0044573	0.0	3.66	1.40	2.89
SRCPARAM L0044574	0.0	3.66	1.40	2.89
SRCPARAM L0044575	0.0	3.66	1.40	2.89
SRCPARAM L0044576	0.0	3.66	1.40	2.89
SRCPARAM L0044577	0.0	3.66	1.40	2.89
SRCPARAM L0044578	0.0	3.66	1.40	2.89
SRCPARAM L0044579	0.0	3.66	1.40	2.89

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SRCPARAM L0044580	0.0	3.66	1.40	2.89
SRCPARAM L0044581	0.0	3.66	1.40	2.89
SRCPARAM L0044582	0.0	3.66	1.40	2.89
SRCPARAM L0044583	0.0	3.66	1.40	2.89
SRCPARAM L0044584	0.0	3.66	1.40	2.89
SRCPARAM L0044585	0.0	3.66	1.40	2.89
SRCPARAM L0044586	0.0	3.66	1.40	2.89
SRCPARAM L0044587	0.0	3.66	1.40	2.89
SRCPARAM L0044588	0.0	3.66	1.40	2.89
SRCPARAM L0044589	0.0	3.66	1.40	2.89
SRCPARAM L0044590	0.0	3.66	1.40	2.89
SRCPARAM L0044591	0.0	3.66	1.40	2.89
SRCPARAM L0044592	0.0	3.66	1.40	2.89
SRCPARAM L0044593	0.0	3.66	1.40	2.89
SRCPARAM L0044594	0.0	3.66	1.40	2.89
SRCPARAM L0044595	0.0	3.66	1.40	2.89
SRCPARAM L0044596	0.0	3.66	1.40	2.89
SRCPARAM L0044597	0.0	3.66	1.40	2.89
SRCPARAM L0044598	0.0	3.66	1.40	2.89
SRCPARAM L0044599	0.0	3.66	1.40	2.89
SRCPARAM L0044600	0.0	3.66	1.40	2.89
SRCPARAM L0044601	0.0	3.66	1.40	2.89
SRCPARAM L0044602	0.0	3.66	1.40	2.89
SRCPARAM L0044603	0.0	3.66	1.40	2.89
SRCPARAM L0044604	0.0	3.66	1.40	2.89
SRCPARAM L0044605	0.0	3.66	1.40	2.89
SRCPARAM L0044606	0.0	3.66	1.40	2.89
SRCPARAM L0044607	0.0	3.66	1.40	2.89
SRCPARAM L0044608	0.0	3.66	1.40	2.89
SRCPARAM L0044609	0.0	3.66	1.40	2.89
SRCPARAM L0044610	0.0	3.66	1.40	2.89
SRCPARAM L0044611	0.0	3.66	1.40	2.89
SRCPARAM L0044612	0.0	3.66	1.40	2.89
SRCPARAM L0044613	0.0	3.66	1.40	2.89
SRCPARAM L0044614	0.0	3.66	1.40	2.89
SRCPARAM L0044615	0.0	3.66	1.40	2.89
SRCPARAM L0044616	0.0	3.66	1.40	2.89
SRCPARAM L0044617	0.0	3.66	1.40	2.89
SRCPARAM L0044618	0.0	3.66	1.40	2.89
SRCPARAM L0044619	0.0	3.66	1.40	2.89
SRCPARAM L0044620	0.0	3.66	1.40	2.89
SRCPARAM L0044621	0.0	3.66	1.40	2.89
SRCPARAM L0044622	0.0	3.66	1.40	2.89
SRCPARAM L0044623	0.0	3.66	1.40	2.89
SRCPARAM L0044624	0.0	3.66	1.40	2.89
SRCPARAM L0044625	0.0	3.66	1.40	2.89
SRCPARAM L0044626	0.0	3.66	1.40	2.89
SRCPARAM L0044627	0.0	3.66	1.40	2.89

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SRCPARAM L0044628	0.0	3.66	1.40	2.89
SRCPARAM L0044629	0.0	3.66	1.40	2.89
SRCPARAM L0044630	0.0	3.66	1.40	2.89
SRCPARAM L0044631	0.0	3.66	1.40	2.89
SRCPARAM L0044632	0.0	3.66	1.40	2.89
SRCPARAM L0044633	0.0	3.66	1.40	2.89
SRCPARAM L0044634	0.0	3.66	1.40	2.89
SRCPARAM L0044635	0.0	3.66	1.40	2.89
SRCPARAM L0044636	0.0	3.66	1.40	2.89
SRCPARAM L0044637	0.0	3.66	1.40	2.89
SRCPARAM L0044638	0.0	3.66	1.40	2.89
SRCPARAM L0044639	0.0	3.66	1.40	2.89
SRCPARAM L0044640	0.0	3.66	1.40	2.89
SRCPARAM L0044641	0.0	3.66	1.40	2.89
SRCPARAM L0044642	0.0	3.66	1.40	2.89
SRCPARAM L0044643	0.0	3.66	1.40	2.89
SRCPARAM L0044644	0.0	3.66	1.40	2.89
SRCPARAM L0044645	0.0	3.66	1.40	2.89
SRCPARAM L0044646	0.0	3.66	1.40	2.89
SRCPARAM L0044647	0.0	3.66	1.40	2.89
SRCPARAM L0044648	0.0	3.66	1.40	2.89
SRCPARAM L0044649	0.0	3.66	1.40	2.89
SRCPARAM L0044650	0.0	3.66	1.40	2.89
SRCPARAM L0044651	0.0	3.66	1.40	2.89
SRCPARAM L0044652	0.0	3.66	1.40	2.89
SRCPARAM L0044653	0.0	3.66	1.40	2.89
SRCPARAM L0044654	0.0	3.66	1.40	2.89
SRCPARAM L0044655	0.0	3.66	1.40	2.89
SRCPARAM L0044656	0.0	3.66	1.40	2.89
SRCPARAM L0044657	0.0	3.66	1.40	2.89
SRCPARAM L0044658	0.0	3.66	1.40	2.89
SRCPARAM L0044659	0.0	3.66	1.40	2.89
SRCPARAM L0044660	0.0	3.66	1.40	2.89
SRCPARAM L0044661	0.0	3.66	1.40	2.89
SRCPARAM L0044662	0.0	3.66	1.40	2.89
SRCPARAM L0044663	0.0	3.66	1.40	2.89
SRCPARAM L0044664	0.0	3.66	1.40	2.89
SRCPARAM L0044665	0.0	3.66	1.40	2.89
SRCPARAM L0044666	0.0	3.66	1.40	2.89
SRCPARAM L0044667	0.0	3.66	1.40	2.89
SRCPARAM L0044668	0.0	3.66	1.40	2.89
SRCPARAM L0044669	0.0	3.66	1.40	2.89
SRCPARAM L0044670	0.0	3.66	1.40	2.89
SRCPARAM L0044671	0.0	3.66	1.40	2.89
SRCPARAM L0044672	0.0	3.66	1.40	2.89
SRCPARAM L0044673	0.0	3.66	1.40	2.89
SRCPARAM L0044674	0.0	3.66	1.40	2.89
SRCPARAM L0044675	0.0	3.66	1.40	2.89

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SRCPARAM L0044676	0.0	3.66	1.40	2.89
SRCPARAM L0044677	0.0	3.66	1.40	2.89
SRCPARAM L0044678	0.0	3.66	1.40	2.89
SRCPARAM L0044679	0.0	3.66	1.40	2.89
SRCPARAM L0044680	0.0	3.66	1.40	2.89
SRCPARAM L0044681	0.0	3.66	1.40	2.89
SRCPARAM L0044682	0.0	3.66	1.40	2.89
SRCPARAM L0044683	0.0	3.66	1.40	2.89
SRCPARAM L0044684	0.0	3.66	1.40	2.89
SRCPARAM L0044685	0.0	3.66	1.40	2.89
SRCPARAM L0044686	0.0	3.66	1.40	2.89
SRCPARAM L0044687	0.0	3.66	1.40	2.89
SRCPARAM L0044688	0.0	3.66	1.40	2.89
SRCPARAM L0044689	0.0	3.66	1.40	2.89
SRCPARAM L0044690	0.0	3.66	1.40	2.89
SRCPARAM L0044691	0.0	3.66	1.40	2.89
SRCPARAM L0044692	0.0	3.66	1.40	2.89
SRCPARAM L0044693	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE62

SRCPARAM L0035433	0.0	3.66	2.33	2.89
SRCPARAM L0035434	0.0	3.66	2.33	2.89
SRCPARAM L0035435	0.0	3.66	2.33	2.89
SRCPARAM L0035436	0.0	3.66	2.33	2.89
SRCPARAM L0035437	0.0	3.66	2.33	2.89
SRCPARAM L0035438	0.0	3.66	2.33	2.89
SRCPARAM L0035439	0.0	3.66	2.33	2.89
SRCPARAM L0035440	0.0	3.66	2.33	2.89
SRCPARAM L0035441	0.0	3.66	2.33	2.89
SRCPARAM L0035442	0.0	3.66	2.33	2.89
SRCPARAM L0035443	0.0	3.66	2.33	2.89
SRCPARAM L0035444	0.0	3.66	2.33	2.89
SRCPARAM L0035445	0.0	3.66	2.33	2.89
SRCPARAM L0035446	0.0	3.66	2.33	2.89
SRCPARAM L0035447	0.0	3.66	2.33	2.89
SRCPARAM L0035448	0.0	3.66	2.33	2.89
SRCPARAM L0035449	0.0	3.66	2.33	2.89
SRCPARAM L0035450	0.0	3.66	2.33	2.89
SRCPARAM L0035451	0.0	3.66	2.33	2.89
SRCPARAM L0035452	0.0	3.66	2.33	2.89
SRCPARAM L0035453	0.0	3.66	2.33	2.89
SRCPARAM L0035454	0.0	3.66	2.33	2.89
SRCPARAM L0035455	0.0	3.66	2.33	2.89
SRCPARAM L0035456	0.0	3.66	2.33	2.89
SRCPARAM L0035457	0.0	3.66	2.33	2.89
SRCPARAM L0035458	0.0	3.66	2.33	2.89
SRCPARAM L0035459	0.0	3.66	2.33	2.89
SRCPARAM L0035460	0.0	3.66	2.33	2.89

SOL\_operations\_rev2.ADI

SRCPARAM L0035461	0.0	3.66	2.33	2.89
SRCPARAM L0035462	0.0	3.66	2.33	2.89
SRCPARAM L0035463	0.0	3.66	2.33	2.89
SRCPARAM L0035464	0.0	3.66	2.33	2.89
SRCPARAM L0035465	0.0	3.66	2.33	2.89
SRCPARAM L0035466	0.0	3.66	2.33	2.89
SRCPARAM L0035467	0.0	3.66	2.33	2.89
SRCPARAM L0035468	0.0	3.66	2.33	2.89
SRCPARAM L0035469	0.0	3.66	2.33	2.89
SRCPARAM L0035470	0.0	3.66	2.33	2.89
SRCPARAM L0035471	0.0	3.66	2.33	2.89
SRCPARAM L0035472	0.0	3.66	2.33	2.89
SRCPARAM L0035473	0.0	3.66	2.33	2.89
SRCPARAM L0035474	0.0	3.66	2.33	2.89
SRCPARAM L0035475	0.0	3.66	2.33	2.89
SRCPARAM L0035476	0.0	3.66	2.33	2.89
SRCPARAM L0035477	0.0	3.66	2.33	2.89
SRCPARAM L0035478	0.0	3.66	2.33	2.89
SRCPARAM L0035479	0.0	3.66	2.33	2.89
SRCPARAM L0035480	0.0	3.66	2.33	2.89
SRCPARAM L0035481	0.0	3.66	2.33	2.89
SRCPARAM L0035482	0.0	3.66	2.33	2.89
SRCPARAM L0035483	0.0	3.66	2.33	2.89
SRCPARAM L0035484	0.0	3.66	2.33	2.89
SRCPARAM L0035485	0.0	3.66	2.33	2.89
SRCPARAM L0035486	0.0	3.66	2.33	2.89
SRCPARAM L0035487	0.0	3.66	2.33	2.89
SRCPARAM L0035488	0.0	3.66	2.33	2.89
SRCPARAM L0035489	0.0	3.66	2.33	2.89
SRCPARAM L0035490	0.0	3.66	2.33	2.89
SRCPARAM L0035491	0.0	3.66	2.33	2.89
SRCPARAM L0035492	0.0	3.66	2.33	2.89
SRCPARAM L0035493	0.0	3.66	2.33	2.89
SRCPARAM L0035494	0.0	3.66	2.33	2.89
SRCPARAM L0035495	0.0	3.66	2.33	2.89
SRCPARAM L0035496	0.0	3.66	2.33	2.89
SRCPARAM L0035497	0.0	3.66	2.33	2.89
SRCPARAM L0035498	0.0	3.66	2.33	2.89
SRCPARAM L0035499	0.0	3.66	2.33	2.89
SRCPARAM L0035500	0.0	3.66	2.33	2.89
SRCPARAM L0035501	0.0	3.66	2.33	2.89
SRCPARAM L0035502	0.0	3.66	2.33	2.89
SRCPARAM L0035503	0.0	3.66	2.33	2.89
SRCPARAM L0035504	0.0	3.66	2.33	2.89
SRCPARAM L0035505	0.0	3.66	2.33	2.89
SRCPARAM L0035506	0.0	3.66	2.33	2.89
SRCPARAM L0035507	0.0	3.66	2.33	2.89
SRCPARAM L0035508	0.0	3.66	2.33	2.89

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SRCPARAM L0035509	0.0	3.66	2.33	2.89
SRCPARAM L0035510	0.0	3.66	2.33	2.89
SRCPARAM L0035511	0.0	3.66	2.33	2.89
SRCPARAM L0035512	0.0	3.66	2.33	2.89
SRCPARAM L0035513	0.0	3.66	2.33	2.89
SRCPARAM L0035514	0.0	3.66	2.33	2.89
SRCPARAM L0035515	0.0	3.66	2.33	2.89
SRCPARAM L0035516	0.0	3.66	2.33	2.89
SRCPARAM L0035517	0.0	3.66	2.33	2.89
SRCPARAM L0035518	0.0	3.66	2.33	2.89
SRCPARAM L0035519	0.0	3.66	2.33	2.89
SRCPARAM L0035520	0.0	3.66	2.33	2.89
SRCPARAM L0035521	0.0	3.66	2.33	2.89
SRCPARAM L0035522	0.0	3.66	2.33	2.89
SRCPARAM L0035523	0.0	3.66	2.33	2.89
SRCPARAM L0035524	0.0	3.66	2.33	2.89
SRCPARAM L0035525	0.0	3.66	2.33	2.89
SRCPARAM L0035526	0.0	3.66	2.33	2.89
SRCPARAM L0035527	0.0	3.66	2.33	2.89
SRCPARAM L0035528	0.0	3.66	2.33	2.89
SRCPARAM L0035529	0.0	3.66	2.33	2.89
SRCPARAM L0035530	0.0	3.66	2.33	2.89
SRCPARAM L0035531	0.0	3.66	2.33	2.89
SRCPARAM L0035532	0.0	3.66	2.33	2.89
SRCPARAM L0035533	0.0	3.66	2.33	2.89
SRCPARAM L0035534	0.0	3.66	2.33	2.89
SRCPARAM L0035535	0.0	3.66	2.33	2.89
SRCPARAM L0035536	0.0	3.66	2.33	2.89
SRCPARAM L0035537	0.0	3.66	2.33	2.89
SRCPARAM L0035538	0.0	3.66	2.33	2.89
SRCPARAM L0035539	0.0	3.66	2.33	2.89
SRCPARAM L0035540	0.0	3.66	2.33	2.89
SRCPARAM L0035541	0.0	3.66	2.33	2.89
SRCPARAM L0035542	0.0	3.66	2.33	2.89
SRCPARAM L0035543	0.0	3.66	2.33	2.89
SRCPARAM L0035544	0.0	3.66	2.33	2.89
SRCPARAM L0035545	0.0	3.66	2.33	2.89
SRCPARAM L0035546	0.0	3.66	2.33	2.89
SRCPARAM L0035547	0.0	3.66	2.33	2.89
SRCPARAM L0035548	0.0	3.66	2.33	2.89
SRCPARAM L0035549	0.0	3.66	2.33	2.89
SRCPARAM L0035550	0.0	3.66	2.33	2.89
SRCPARAM L0035551	0.0	3.66	2.33	2.89
SRCPARAM L0035552	0.0	3.66	2.33	2.89
SRCPARAM L0035553	0.0	3.66	2.33	2.89
SRCPARAM L0035554	0.0	3.66	2.33	2.89
SRCPARAM L0035555	0.0	3.66	2.33	2.89
SRCPARAM L0035556	0.0	3.66	2.33	2.89



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SRCPARAM L0035557	0.0	3.66	2.33	2.89
SRCPARAM L0035558	0.0	3.66	2.33	2.89
SRCPARAM L0035559	0.0	3.66	2.33	2.89
SRCPARAM L0035560	0.0	3.66	2.33	2.89
SRCPARAM L0035561	0.0	3.66	2.33	2.89
SRCPARAM L0035562	0.0	3.66	2.33	2.89
SRCPARAM L0035563	0.0	3.66	2.33	2.89
SRCPARAM L0035564	0.0	3.66	2.33	2.89
SRCPARAM L0035565	0.0	3.66	2.33	2.89
SRCPARAM L0035566	0.0	3.66	2.33	2.89
SRCPARAM L0035567	0.0	3.66	2.33	2.89
SRCPARAM L0035568	0.0	3.66	2.33	2.89
SRCPARAM L0035569	0.0	3.66	2.33	2.89
SRCPARAM L0035570	0.0	3.66	2.33	2.89
SRCPARAM L0035571	0.0	3.66	2.33	2.89
SRCPARAM L0035572	0.0	3.66	2.33	2.89
SRCPARAM L0035573	0.0	3.66	2.33	2.89
SRCPARAM L0035574	0.0	3.66	2.33	2.89
SRCPARAM L0035575	0.0	3.66	2.33	2.89
SRCPARAM L0035576	0.0	3.66	2.33	2.89
SRCPARAM L0035577	0.0	3.66	2.33	2.89
SRCPARAM L0035578	0.0	3.66	2.33	2.89
SRCPARAM L0035579	0.0	3.66	2.33	2.89
SRCPARAM L0035580	0.0	3.66	2.33	2.89
SRCPARAM L0035581	0.0	3.66	2.33	2.89
SRCPARAM L0035582	0.0	3.66	2.33	2.89
SRCPARAM L0035583	0.0	3.66	2.33	2.89
SRCPARAM L0035584	0.0	3.66	2.33	2.89
SRCPARAM L0035585	0.0	3.66	2.33	2.89
SRCPARAM L0035586	0.0	3.66	2.33	2.89
SRCPARAM L0035587	0.0	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE64

SRCPARAM L0044694	0.0	3.66	1.40	2.89
SRCPARAM L0044695	0.0	3.66	1.40	2.89
SRCPARAM L0044696	0.0	3.66	1.40	2.89
SRCPARAM L0044697	0.0	3.66	1.40	2.89
SRCPARAM L0044698	0.0	3.66	1.40	2.89
SRCPARAM L0044699	0.0	3.66	1.40	2.89
SRCPARAM L0044700	0.0	3.66	1.40	2.89
SRCPARAM L0044701	0.0	3.66	1.40	2.89
SRCPARAM L0044702	0.0	3.66	1.40	2.89
SRCPARAM L0044703	0.0	3.66	1.40	2.89
SRCPARAM L0044704	0.0	3.66	1.40	2.89
SRCPARAM L0044705	0.0	3.66	1.40	2.89
SRCPARAM L0044706	0.0	3.66	1.40	2.89
SRCPARAM L0044707	0.0	3.66	1.40	2.89
SRCPARAM L0044708	0.0	3.66	1.40	2.89

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SRCPARAM L0044709	0.0	3.66	1.40	2.89
SRCPARAM L0044710	0.0	3.66	1.40	2.89
SRCPARAM L0044711	0.0	3.66	1.40	2.89
SRCPARAM L0044712	0.0	3.66	1.40	2.89
SRCPARAM L0044713	0.0	3.66	1.40	2.89
SRCPARAM L0044714	0.0	3.66	1.40	2.89
SRCPARAM L0044715	0.0	3.66	1.40	2.89
SRCPARAM L0044716	0.0	3.66	1.40	2.89
SRCPARAM L0044717	0.0	3.66	1.40	2.89
SRCPARAM L0044718	0.0	3.66	1.40	2.89
SRCPARAM L0044719	0.0	3.66	1.40	2.89
SRCPARAM L0044720	0.0	3.66	1.40	2.89
SRCPARAM L0044721	0.0	3.66	1.40	2.89
SRCPARAM L0044722	0.0	3.66	1.40	2.89
SRCPARAM L0044723	0.0	3.66	1.40	2.89
SRCPARAM L0044724	0.0	3.66	1.40	2.89
SRCPARAM L0044725	0.0	3.66	1.40	2.89
SRCPARAM L0044726	0.0	3.66	1.40	2.89
SRCPARAM L0044727	0.0	3.66	1.40	2.89
SRCPARAM L0044728	0.0	3.66	1.40	2.89
SRCPARAM L0044729	0.0	3.66	1.40	2.89
SRCPARAM L0044730	0.0	3.66	1.40	2.89
SRCPARAM L0044731	0.0	3.66	1.40	2.89
SRCPARAM L0044732	0.0	3.66	1.40	2.89
SRCPARAM L0044733	0.0	3.66	1.40	2.89
SRCPARAM L0044734	0.0	3.66	1.40	2.89
SRCPARAM L0044735	0.0	3.66	1.40	2.89
SRCPARAM L0044736	0.0	3.66	1.40	2.89
SRCPARAM L0044737	0.0	3.66	1.40	2.89
SRCPARAM L0044738	0.0	3.66	1.40	2.89
SRCPARAM L0044739	0.0	3.66	1.40	2.89
SRCPARAM L0044740	0.0	3.66	1.40	2.89
SRCPARAM L0044741	0.0	3.66	1.40	2.89
SRCPARAM L0044742	0.0	3.66	1.40	2.89
SRCPARAM L0044743	0.0	3.66	1.40	2.89
SRCPARAM L0044744	0.0	3.66	1.40	2.89
SRCPARAM L0044745	0.0	3.66	1.40	2.89
SRCPARAM L0044746	0.0	3.66	1.40	2.89
SRCPARAM L0044747	0.0	3.66	1.40	2.89
SRCPARAM L0044748	0.0	3.66	1.40	2.89
SRCPARAM L0044749	0.0	3.66	1.40	2.89
SRCPARAM L0044750	0.0	3.66	1.40	2.89
SRCPARAM L0044751	0.0	3.66	1.40	2.89
SRCPARAM L0044752	0.0	3.66	1.40	2.89
SRCPARAM L0044753	0.0	3.66	1.40	2.89
SRCPARAM L0044754	0.0	3.66	1.40	2.89
SRCPARAM L0044755	0.0	3.66	1.40	2.89
SRCPARAM L0044756	0.0	3.66	1.40	2.89

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SRCPARAM L0044757	0.0	3.66	1.40	2.89
SRCPARAM L0044758	0.0	3.66	1.40	2.89
SRCPARAM L0044759	0.0	3.66	1.40	2.89
SRCPARAM L0044760	0.0	3.66	1.40	2.89
SRCPARAM L0044761	0.0	3.66	1.40	2.89
SRCPARAM L0044762	0.0	3.66	1.40	2.89
SRCPARAM L0044763	0.0	3.66	1.40	2.89
SRCPARAM L0044764	0.0	3.66	1.40	2.89
SRCPARAM L0044765	0.0	3.66	1.40	2.89
SRCPARAM L0044766	0.0	3.66	1.40	2.89
SRCPARAM L0044767	0.0	3.66	1.40	2.89
SRCPARAM L0044768	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE65

SRCPARAM L0044769	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044770	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044771	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044772	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044773	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044774	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044775	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044776	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044777	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044778	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044779	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044780	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044781	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044782	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044783	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044784	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044785	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044786	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044787	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044788	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044789	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044790	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044791	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044792	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044793	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044794	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044795	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044796	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044797	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044798	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044799	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044800	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044801	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044802	0.00000003441	3.66	2.33	2.89





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SRCPARAM L0044899	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044900	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044901	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044902	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044903	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044904	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044905	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044906	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044907	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044908	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044909	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044910	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044911	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044912	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044913	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044914	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044915	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044916	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044917	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044918	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044919	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044920	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044921	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044922	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044923	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044924	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044925	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044926	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044927	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044928	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044929	0.00000003441	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE66

SRCPARAM L0044930	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044931	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044932	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044933	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044934	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044935	0.0000001324	3.66	2.33	2.89
SRCPARAM L0044936	0.0000001324	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE67

SRCPARAM L0044937	0.00000005455	3.66	2.33	2.89
SRCPARAM L0044938	0.00000005455	3.66	2.33	2.89
SRCPARAM L0044939	0.00000005455	3.66	2.33	2.89
SRCPARAM L0044940	0.00000005455	3.66	2.33	2.89
SRCPARAM L0044941	0.00000005455	3.66	2.33	2.89
SRCPARAM L0044942	0.00000005455	3.66	2.33	2.89







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SRCPARAM L0045039	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045040	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045041	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045042	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045043	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045044	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045045	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045046	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045047	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045048	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045049	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045050	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045051	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045052	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045053	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045054	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045055	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045056	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045057	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045058	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045059	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045060	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045061	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045062	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045063	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045064	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045065	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045066	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045067	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045068	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045069	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045070	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045071	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045072	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045073	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045074	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045075	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045076	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045077	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045078	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045079	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045080	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045081	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045082	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045083	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045084	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045085	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045086	0.00000005455	3.66	2.33	2.89

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SRCPARAM L0045087	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045088	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045089	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045090	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045091	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045092	0.00000005455	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE68

SRCPARAM L0045093	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045094	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045095	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045096	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045097	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045098	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045099	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045100	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045101	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045102	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045103	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045104	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045105	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045106	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045107	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045108	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045109	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045110	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045111	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045112	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045113	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045114	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045115	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045116	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045117	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045118	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045119	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045120	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045121	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045122	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045123	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045124	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045125	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045126	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045127	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045128	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045129	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045130	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045131	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045132	0.00000005469	3.66	2.33	2.89





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SRCPARAM L0045229	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045230	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045231	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045232	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045233	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045234	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045235	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045236	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045237	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045238	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045239	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045240	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045241	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045242	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045243	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045244	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045245	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045246	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045247	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045248	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045249	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045250	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045251	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045252	0.00000005469	3.66	2.33	2.89

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URBANSRC ALL  
SRCGROUP ALL

SO FINISHED  
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\*\* AERMOD Receptor Pathway

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RE STARTING  
INCLUDED SOL\_operations\_rev2.rou

RE FINISHED  
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\*\* AERMOD Meteorology Pathway

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ME STARTING  
SURFFILE KCNO\_V9\_ADJU\KCNO\_v9.SFC  
PROFFILE KCNO\_V9\_ADJU\KCNO\_v9.PFL  
SURFDATA 3179 2012  
UAIRDATA 3190 2012

SOL\_operations\_rev2.ADI

PROFBASE 198.0 METERS

ME FINISHED

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\*\* AERMOD Output Pathway

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OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST SOL\_OPERATIONS\_REV2.AD\01H1GALL.PLT 31

PLOTFILE 24 ALL 1ST SOL\_OPERATIONS\_REV2.AD\24H1GALL.PLT 32

PLOTFILE PERIOD ALL SOL\_OPERATIONS\_REV2.AD\PE00GALL.PLT 33

SUMMFILE SOL\_operations\_rev2.sum

OU FINISHED

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\*\* Project Parameters

\*\*\*\*\*

\*\* PROJCTN CoordinateSystemUTM

\*\* DESCPTN UTM: Universal Transverse Mercator

\*\* DATUM World Geodetic System 1984

\*\* DTMRGN Global Definition

\*\* UNITS m

\*\* ZONE 11

\*\* ZONEINX 0

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SOL\_operations\_rev2.ADO

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\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.8.3

\*\* Lakes Environmental Software Inc.

\*\* Date: 3/9/2021

\*\* File: C:\Lakes\AERMOD View\SOL\_operations\_rev2\SOL\_operations\_rev2.ADI

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\*\* AERMOD Control Pathway

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CO STARTING

TITLEONE C:\Lakes\AERMOD View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc

MODELOPT DFAULT CONC

AVERTIME 1 24 PERIOD

URBANOPT 2035210 San\_Bernardino\_County

POLLUTID PM\_10

RUNORNOT RUN

ERRORFIL SOL\_operations\_rev2.err

CO FINISHED

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\*\* AERMOD Source Pathway

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SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000334

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439897.910, 3762688.093, 217.36, 3.66, 5.58

\*\* 439897.649, 3762632.423, 216.86, 3.66, 5.58

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\*\* 439900.113, 3762370.124, 213.55, 3.66, 5.58  
 \*\* 439898.053, 3762075.508, 210.11, 3.66, 5.58  
 \*\* 439895.792, 3761276.665, 202.47, 3.66, 5.58  
 \*\* 439895.843, 3760467.600, 193.65, 3.66, 5.58

\*\* -----

LOCATION	VOLUME				
L0040784	VOLUME	439897.882	3762682.093	217.46	
L0040785	VOLUME	439897.826	3762670.093	217.29	
L0040786	VOLUME	439897.770	3762658.093	217.15	
L0040787	VOLUME	439897.713	3762646.093	217.01	
L0040788	VOLUME	439897.657	3762634.093	216.85	
L0040789	VOLUME	439897.746	3762622.094	216.69	
L0040790	VOLUME	439897.859	3762610.094	216.53	
L0040791	VOLUME	439897.972	3762598.095	216.38	
L0040792	VOLUME	439898.084	3762586.095	216.23	
L0040793	VOLUME	439898.197	3762574.096	216.09	
L0040794	VOLUME	439898.310	3762562.096	215.96	
L0040795	VOLUME	439898.423	3762550.097	215.83	
L0040796	VOLUME	439898.535	3762538.097	215.68	
L0040797	VOLUME	439898.648	3762526.098	215.54	
L0040798	VOLUME	439898.761	3762514.098	215.40	
L0040799	VOLUME	439898.873	3762502.099	215.28	
L0040800	VOLUME	439898.986	3762490.100	215.15	
L0040801	VOLUME	439899.099	3762478.100	215.02	
L0040802	VOLUME	439899.212	3762466.101	214.89	
L0040803	VOLUME	439899.324	3762454.101	214.75	
L0040804	VOLUME	439899.437	3762442.102	214.59	
L0040805	VOLUME	439899.550	3762430.102	214.43	
L0040806	VOLUME	439899.663	3762418.103	214.28	
L0040807	VOLUME	439899.775	3762406.103	214.12	
L0040808	VOLUME	439899.888	3762394.104	213.97	
L0040809	VOLUME	439900.001	3762382.104	213.81	
L0040810	VOLUME	439900.113	3762370.105	213.66	
L0040811	VOLUME	439900.029	3762358.105	213.50	
L0040812	VOLUME	439899.945	3762346.105	213.33	
L0040813	VOLUME	439899.861	3762334.106	213.16	
L0040814	VOLUME	439899.778	3762322.106	212.98	
L0040815	VOLUME	439899.694	3762310.106	212.80	
L0040816	VOLUME	439899.610	3762298.107	212.61	
L0040817	VOLUME	439899.526	3762286.107	212.40	
L0040818	VOLUME	439899.442	3762274.107	212.20	
L0040819	VOLUME	439899.358	3762262.107	212.00	
L0040820	VOLUME	439899.274	3762250.108	211.81	
L0040821	VOLUME	439899.190	3762238.108	211.62	
L0040822	VOLUME	439899.106	3762226.108	211.45	
L0040823	VOLUME	439899.022	3762214.109	211.29	
L0040824	VOLUME	439898.938	3762202.109	211.14	
L0040825	VOLUME	439898.854	3762190.109	211.00	
L0040826	VOLUME	439898.771	3762178.110	210.87	



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LOCATION L0040827	VOLUME	439898.687	3762166.110	210.76
LOCATION L0040828	VOLUME	439898.603	3762154.110	210.65
LOCATION L0040829	VOLUME	439898.519	3762142.110	210.56
LOCATION L0040830	VOLUME	439898.435	3762130.111	210.48
LOCATION L0040831	VOLUME	439898.351	3762118.111	210.40
LOCATION L0040832	VOLUME	439898.267	3762106.111	210.32
LOCATION L0040833	VOLUME	439898.183	3762094.112	210.23
LOCATION L0040834	VOLUME	439898.099	3762082.112	210.14
LOCATION L0040835	VOLUME	439898.038	3762070.112	210.04
LOCATION L0040836	VOLUME	439898.004	3762058.112	209.95
LOCATION L0040837	VOLUME	439897.970	3762046.112	209.86
LOCATION L0040838	VOLUME	439897.936	3762034.112	209.77
LOCATION L0040839	VOLUME	439897.902	3762022.112	209.68
LOCATION L0040840	VOLUME	439897.868	3762010.112	209.59
LOCATION L0040841	VOLUME	439897.834	3761998.112	209.50
LOCATION L0040842	VOLUME	439897.800	3761986.112	209.40
LOCATION L0040843	VOLUME	439897.766	3761974.112	209.30
LOCATION L0040844	VOLUME	439897.732	3761962.113	209.19
LOCATION L0040845	VOLUME	439897.698	3761950.113	209.08
LOCATION L0040846	VOLUME	439897.664	3761938.113	208.97
LOCATION L0040847	VOLUME	439897.630	3761926.113	208.87
LOCATION L0040848	VOLUME	439897.596	3761914.113	208.76
LOCATION L0040849	VOLUME	439897.562	3761902.113	208.66
LOCATION L0040850	VOLUME	439897.528	3761890.113	208.55
LOCATION L0040851	VOLUME	439897.494	3761878.113	208.45
LOCATION L0040852	VOLUME	439897.460	3761866.113	208.35
LOCATION L0040853	VOLUME	439897.426	3761854.113	208.25
LOCATION L0040854	VOLUME	439897.392	3761842.113	208.15
LOCATION L0040855	VOLUME	439897.358	3761830.113	208.04
LOCATION L0040856	VOLUME	439897.324	3761818.113	207.94
LOCATION L0040857	VOLUME	439897.291	3761806.113	207.83
LOCATION L0040858	VOLUME	439897.257	3761794.113	207.72
LOCATION L0040859	VOLUME	439897.223	3761782.113	207.62
LOCATION L0040860	VOLUME	439897.189	3761770.113	207.51
LOCATION L0040861	VOLUME	439897.155	3761758.113	207.40
LOCATION L0040862	VOLUME	439897.121	3761746.113	207.29
LOCATION L0040863	VOLUME	439897.087	3761734.113	207.19
LOCATION L0040864	VOLUME	439897.053	3761722.113	207.08
LOCATION L0040865	VOLUME	439897.019	3761710.114	206.99
LOCATION L0040866	VOLUME	439896.985	3761698.114	206.89
LOCATION L0040867	VOLUME	439896.951	3761686.114	206.79
LOCATION L0040868	VOLUME	439896.917	3761674.114	206.69
LOCATION L0040869	VOLUME	439896.883	3761662.114	206.58
LOCATION L0040870	VOLUME	439896.849	3761650.114	206.47
LOCATION L0040871	VOLUME	439896.815	3761638.114	206.38
LOCATION L0040872	VOLUME	439896.781	3761626.114	206.28
LOCATION L0040873	VOLUME	439896.747	3761614.114	206.19
LOCATION L0040874	VOLUME	439896.713	3761602.114	206.10

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LOCATION L0040875	VOLUME	439896.679	3761590.114	206.00
LOCATION L0040876	VOLUME	439896.645	3761578.114	205.88
LOCATION L0040877	VOLUME	439896.611	3761566.114	205.76
LOCATION L0040878	VOLUME	439896.577	3761554.114	205.62
LOCATION L0040879	VOLUME	439896.543	3761542.114	205.48
LOCATION L0040880	VOLUME	439896.509	3761530.114	205.34
LOCATION L0040881	VOLUME	439896.475	3761518.114	205.20
LOCATION L0040882	VOLUME	439896.441	3761506.114	205.06
LOCATION L0040883	VOLUME	439896.407	3761494.114	204.92
LOCATION L0040884	VOLUME	439896.373	3761482.114	204.78
LOCATION L0040885	VOLUME	439896.339	3761470.114	204.64
LOCATION L0040886	VOLUME	439896.305	3761458.115	204.50
LOCATION L0040887	VOLUME	439896.272	3761446.115	204.36
LOCATION L0040888	VOLUME	439896.238	3761434.115	204.23
LOCATION L0040889	VOLUME	439896.204	3761422.115	204.08
LOCATION L0040890	VOLUME	439896.170	3761410.115	203.94
LOCATION L0040891	VOLUME	439896.136	3761398.115	203.79
LOCATION L0040892	VOLUME	439896.102	3761386.115	203.64
LOCATION L0040893	VOLUME	439896.068	3761374.115	203.48
LOCATION L0040894	VOLUME	439896.034	3761362.115	203.34
LOCATION L0040895	VOLUME	439896.000	3761350.115	203.19
LOCATION L0040896	VOLUME	439895.966	3761338.115	203.06
LOCATION L0040897	VOLUME	439895.932	3761326.115	202.93
LOCATION L0040898	VOLUME	439895.898	3761314.115	202.81
LOCATION L0040899	VOLUME	439895.864	3761302.115	202.68
LOCATION L0040900	VOLUME	439895.830	3761290.115	202.55
LOCATION L0040901	VOLUME	439895.796	3761278.115	202.42
LOCATION L0040902	VOLUME	439895.793	3761266.115	202.29
LOCATION L0040903	VOLUME	439895.793	3761254.115	202.16
LOCATION L0040904	VOLUME	439895.794	3761242.115	202.08
LOCATION L0040905	VOLUME	439895.795	3761230.115	202.00
LOCATION L0040906	VOLUME	439895.796	3761218.115	201.91
LOCATION L0040907	VOLUME	439895.796	3761206.115	201.81
LOCATION L0040908	VOLUME	439895.797	3761194.115	201.71
LOCATION L0040909	VOLUME	439895.798	3761182.115	201.59
LOCATION L0040910	VOLUME	439895.799	3761170.115	201.47
LOCATION L0040911	VOLUME	439895.799	3761158.115	201.36
LOCATION L0040912	VOLUME	439895.800	3761146.115	201.23
LOCATION L0040913	VOLUME	439895.801	3761134.115	201.10
LOCATION L0040914	VOLUME	439895.802	3761122.115	200.98
LOCATION L0040915	VOLUME	439895.802	3761110.115	200.86
LOCATION L0040916	VOLUME	439895.803	3761098.115	200.74
LOCATION L0040917	VOLUME	439895.804	3761086.115	200.62
LOCATION L0040918	VOLUME	439895.805	3761074.115	200.49
LOCATION L0040919	VOLUME	439895.805	3761062.115	200.37
LOCATION L0040920	VOLUME	439895.806	3761050.115	200.23
LOCATION L0040921	VOLUME	439895.807	3761038.115	200.09
LOCATION L0040922	VOLUME	439895.808	3761026.115	199.94

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LOCATION L0040923	VOLUME	439895.808	3761014.115	199.79
LOCATION L0040924	VOLUME	439895.809	3761002.115	199.63
LOCATION L0040925	VOLUME	439895.810	3760990.115	199.48
LOCATION L0040926	VOLUME	439895.811	3760978.115	199.32
LOCATION L0040927	VOLUME	439895.811	3760966.115	199.16
LOCATION L0040928	VOLUME	439895.812	3760954.115	199.01
LOCATION L0040929	VOLUME	439895.813	3760942.115	198.86
LOCATION L0040930	VOLUME	439895.814	3760930.115	198.71
LOCATION L0040931	VOLUME	439895.814	3760918.115	198.56
LOCATION L0040932	VOLUME	439895.815	3760906.115	198.41
LOCATION L0040933	VOLUME	439895.816	3760894.115	198.25
LOCATION L0040934	VOLUME	439895.817	3760882.115	198.09
LOCATION L0040935	VOLUME	439895.817	3760870.115	197.94
LOCATION L0040936	VOLUME	439895.818	3760858.115	197.78
LOCATION L0040937	VOLUME	439895.819	3760846.115	197.61
LOCATION L0040938	VOLUME	439895.820	3760834.115	197.43
LOCATION L0040939	VOLUME	439895.820	3760822.115	197.26
LOCATION L0040940	VOLUME	439895.821	3760810.115	197.10
LOCATION L0040941	VOLUME	439895.822	3760798.115	196.95
LOCATION L0040942	VOLUME	439895.823	3760786.115	196.80
LOCATION L0040943	VOLUME	439895.823	3760774.115	196.66
LOCATION L0040944	VOLUME	439895.824	3760762.115	196.52
LOCATION L0040945	VOLUME	439895.825	3760750.115	196.38
LOCATION L0040946	VOLUME	439895.826	3760738.115	196.24
LOCATION L0040947	VOLUME	439895.826	3760726.115	196.11
LOCATION L0040948	VOLUME	439895.827	3760714.115	195.98
LOCATION L0040949	VOLUME	439895.828	3760702.115	195.85
LOCATION L0040950	VOLUME	439895.829	3760690.115	195.74
LOCATION L0040951	VOLUME	439895.829	3760678.115	195.63
LOCATION L0040952	VOLUME	439895.830	3760666.115	195.52
LOCATION L0040953	VOLUME	439895.831	3760654.115	195.42
LOCATION L0040954	VOLUME	439895.832	3760642.115	195.31
LOCATION L0040955	VOLUME	439895.832	3760630.115	195.21
LOCATION L0040956	VOLUME	439895.833	3760618.115	195.11
LOCATION L0040957	VOLUME	439895.834	3760606.115	195.01
LOCATION L0040958	VOLUME	439895.835	3760594.115	194.90
LOCATION L0040959	VOLUME	439895.835	3760582.115	194.79
LOCATION L0040960	VOLUME	439895.836	3760570.115	194.68
LOCATION L0040961	VOLUME	439895.837	3760558.115	194.57
LOCATION L0040962	VOLUME	439895.838	3760546.115	194.46
LOCATION L0040963	VOLUME	439895.838	3760534.115	194.34
LOCATION L0040964	VOLUME	439895.839	3760522.115	194.22
LOCATION L0040965	VOLUME	439895.840	3760510.115	194.10
LOCATION L0040966	VOLUME	439895.841	3760498.115	193.99
LOCATION L0040967	VOLUME	439895.841	3760486.115	193.88
LOCATION L0040968	VOLUME	439895.842	3760474.115	193.77

\*\* End of LINE VOLUME Source ID = SLINE2

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Euclid Ave - Merrill Ave to SR-71

\*\* PREFIX

\*\* Length of Side = 12.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000016

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 7

\*\* 439895.965, 3760471.472, 193.72, 3.66, 5.58

\*\* 439894.002, 3760323.327, 192.76, 3.66, 5.58

\*\* 439894.252, 3759955.407, 190.38, 3.66, 5.58

\*\* 439889.660, 3759518.181, 186.91, 3.66, 5.58

\*\* 439888.673, 3759221.010, 184.82, 3.66, 5.58

\*\* 439889.264, 3759072.819, 183.50, 3.66, 5.58

\*\* 439887.586, 3758873.931, 182.11, 3.66, 5.58

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LOCATION	VOLUME				
L0040969	VOLUME	439895.885	3760465.473	193.68	
L0040970	VOLUME	439895.726	3760453.474	193.57	
L0040971	VOLUME	439895.568	3760441.475	193.47	
L0040972	VOLUME	439895.409	3760429.476	193.38	
L0040973	VOLUME	439895.250	3760417.477	193.29	
L0040974	VOLUME	439895.091	3760405.478	193.23	
L0040975	VOLUME	439894.932	3760393.479	193.17	
L0040976	VOLUME	439894.773	3760381.480	193.10	
L0040977	VOLUME	439894.614	3760369.481	193.03	
L0040978	VOLUME	439894.455	3760357.482	192.96	
L0040979	VOLUME	439894.296	3760345.483	192.88	
L0040980	VOLUME	439894.137	3760333.484	192.80	
L0040981	VOLUME	439894.003	3760321.485	192.70	
L0040982	VOLUME	439894.012	3760309.485	192.60	
L0040983	VOLUME	439894.020	3760297.485	192.49	
L0040984	VOLUME	439894.028	3760285.485	192.39	
L0040985	VOLUME	439894.036	3760273.485	192.28	
L0040986	VOLUME	439894.044	3760261.485	192.17	
L0040987	VOLUME	439894.052	3760249.485	192.07	
L0040988	VOLUME	439894.061	3760237.485	191.96	
L0040989	VOLUME	439894.069	3760225.485	191.85	
L0040990	VOLUME	439894.077	3760213.485	191.74	
L0040991	VOLUME	439894.085	3760201.485	191.64	
L0040992	VOLUME	439894.093	3760189.485	191.54	
L0040993	VOLUME	439894.101	3760177.485	191.44	
L0040994	VOLUME	439894.110	3760165.485	191.37	
L0040995	VOLUME	439894.118	3760153.485	191.30	
L0040996	VOLUME	439894.126	3760141.485	191.24	
L0040997	VOLUME	439894.134	3760129.485	191.18	
L0040998	VOLUME	439894.142	3760117.485	191.12	

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LOCATION L0040999	VOLUME	439894.150	3760105.485	191.08
LOCATION L0041000	VOLUME	439894.159	3760093.485	191.03
LOCATION L0041001	VOLUME	439894.167	3760081.485	190.98
LOCATION L0041002	VOLUME	439894.175	3760069.485	190.93
LOCATION L0041003	VOLUME	439894.183	3760057.485	190.88
LOCATION L0041004	VOLUME	439894.191	3760045.485	190.83
LOCATION L0041005	VOLUME	439894.199	3760033.485	190.78
LOCATION L0041006	VOLUME	439894.208	3760021.485	190.72
LOCATION L0041007	VOLUME	439894.216	3760009.485	190.66
LOCATION L0041008	VOLUME	439894.224	3759997.485	190.60
LOCATION L0041009	VOLUME	439894.232	3759985.485	190.53
LOCATION L0041010	VOLUME	439894.240	3759973.485	190.47
LOCATION L0041011	VOLUME	439894.248	3759961.485	190.41
LOCATION L0041012	VOLUME	439894.190	3759949.486	190.34
LOCATION L0041013	VOLUME	439894.064	3759937.486	190.27
LOCATION L0041014	VOLUME	439893.938	3759925.487	190.21
LOCATION L0041015	VOLUME	439893.812	3759913.488	190.14
LOCATION L0041016	VOLUME	439893.686	3759901.488	190.08
LOCATION L0041017	VOLUME	439893.560	3759889.489	190.01
LOCATION L0041018	VOLUME	439893.434	3759877.490	189.93
LOCATION L0041019	VOLUME	439893.308	3759865.490	189.84
LOCATION L0041020	VOLUME	439893.182	3759853.491	189.74
LOCATION L0041021	VOLUME	439893.056	3759841.492	189.64
LOCATION L0041022	VOLUME	439892.930	3759829.492	189.54
LOCATION L0041023	VOLUME	439892.804	3759817.493	189.44
LOCATION L0041024	VOLUME	439892.678	3759805.494	189.33
LOCATION L0041025	VOLUME	439892.552	3759793.494	189.23
LOCATION L0041026	VOLUME	439892.426	3759781.495	189.13
LOCATION L0041027	VOLUME	439892.300	3759769.496	189.02
LOCATION L0041028	VOLUME	439892.174	3759757.496	188.91
LOCATION L0041029	VOLUME	439892.048	3759745.497	188.80
LOCATION L0041030	VOLUME	439891.922	3759733.498	188.69
LOCATION L0041031	VOLUME	439891.795	3759721.498	188.57
LOCATION L0041032	VOLUME	439891.669	3759709.499	188.46
LOCATION L0041033	VOLUME	439891.543	3759697.500	188.36
LOCATION L0041034	VOLUME	439891.417	3759685.500	188.26
LOCATION L0041035	VOLUME	439891.291	3759673.501	188.16
LOCATION L0041036	VOLUME	439891.165	3759661.502	188.07
LOCATION L0041037	VOLUME	439891.039	3759649.502	187.97
LOCATION L0041038	VOLUME	439890.913	3759637.503	187.86
LOCATION L0041039	VOLUME	439890.787	3759625.504	187.75
LOCATION L0041040	VOLUME	439890.661	3759613.504	187.64
LOCATION L0041041	VOLUME	439890.535	3759601.505	187.54
LOCATION L0041042	VOLUME	439890.409	3759589.505	187.44
LOCATION L0041043	VOLUME	439890.283	3759577.506	187.35
LOCATION L0041044	VOLUME	439890.157	3759565.507	187.25
LOCATION L0041045	VOLUME	439890.031	3759553.507	187.15
LOCATION L0041046	VOLUME	439889.905	3759541.508	187.05

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LOCATION L0041047	VOLUME	439889.779	3759529.509	186.95
LOCATION L0041048	VOLUME	439889.658	3759517.509	186.86
LOCATION L0041049	VOLUME	439889.618	3759505.510	186.78
LOCATION L0041050	VOLUME	439889.578	3759493.510	186.70
LOCATION L0041051	VOLUME	439889.538	3759481.510	186.63
LOCATION L0041052	VOLUME	439889.498	3759469.510	186.55
LOCATION L0041053	VOLUME	439889.458	3759457.510	186.48
LOCATION L0041054	VOLUME	439889.418	3759445.510	186.41
LOCATION L0041055	VOLUME	439889.379	3759433.510	186.34
LOCATION L0041056	VOLUME	439889.339	3759421.510	186.26
LOCATION L0041057	VOLUME	439889.299	3759409.510	186.18
LOCATION L0041058	VOLUME	439889.259	3759397.510	186.09
LOCATION L0041059	VOLUME	439889.219	3759385.510	186.00
LOCATION L0041060	VOLUME	439889.179	3759373.510	185.92
LOCATION L0041061	VOLUME	439889.139	3759361.510	185.85
LOCATION L0041062	VOLUME	439889.099	3759349.510	185.79
LOCATION L0041063	VOLUME	439889.060	3759337.510	185.72
LOCATION L0041064	VOLUME	439889.020	3759325.510	185.66
LOCATION L0041065	VOLUME	439888.980	3759313.511	185.59
LOCATION L0041066	VOLUME	439888.940	3759301.511	185.52
LOCATION L0041067	VOLUME	439888.900	3759289.511	185.44
LOCATION L0041068	VOLUME	439888.860	3759277.511	185.35
LOCATION L0041069	VOLUME	439888.820	3759265.511	185.25
LOCATION L0041070	VOLUME	439888.781	3759253.511	185.14
LOCATION L0041071	VOLUME	439888.741	3759241.511	185.02
LOCATION L0041072	VOLUME	439888.701	3759229.511	184.91
LOCATION L0041073	VOLUME	439888.687	3759217.511	184.79
LOCATION L0041074	VOLUME	439888.734	3759205.511	184.67
LOCATION L0041075	VOLUME	439888.782	3759193.511	184.56
LOCATION L0041076	VOLUME	439888.830	3759181.511	184.44
LOCATION L0041077	VOLUME	439888.878	3759169.511	184.33
LOCATION L0041078	VOLUME	439888.926	3759157.512	184.22
LOCATION L0041079	VOLUME	439888.974	3759145.512	184.11
LOCATION L0041080	VOLUME	439889.022	3759133.512	184.00
LOCATION L0041081	VOLUME	439889.070	3759121.512	183.89
LOCATION L0041082	VOLUME	439889.118	3759109.512	183.80
LOCATION L0041083	VOLUME	439889.166	3759097.512	183.70
LOCATION L0041084	VOLUME	439889.214	3759085.512	183.63
LOCATION L0041085	VOLUME	439889.262	3759073.512	183.55
LOCATION L0041086	VOLUME	439889.169	3759061.513	183.48
LOCATION L0041087	VOLUME	439889.068	3759049.513	183.42
LOCATION L0041088	VOLUME	439888.966	3759037.514	183.36
LOCATION L0041089	VOLUME	439888.865	3759025.514	183.31
LOCATION L0041090	VOLUME	439888.764	3759013.514	183.25
LOCATION L0041091	VOLUME	439888.663	3759001.515	183.19
LOCATION L0041092	VOLUME	439888.561	3758989.515	183.11
LOCATION L0041093	VOLUME	439888.460	3758977.516	183.03
LOCATION L0041094	VOLUME	439888.359	3758965.516	182.95

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LOCATION L0041095	VOLUME	439888.258	3758953.517	182.87
LOCATION L0041096	VOLUME	439888.156	3758941.517	182.78
LOCATION L0041097	VOLUME	439888.055	3758929.517	182.67
LOCATION L0041098	VOLUME	439887.954	3758917.518	182.56
LOCATION L0041099	VOLUME	439887.853	3758905.518	182.44
LOCATION L0041100	VOLUME	439887.751	3758893.519	182.30
LOCATION L0041101	VOLUME	439887.650	3758881.519	182.17

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Merrill Ave - Euclid Ave to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.000012

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 6

\*\* 439898.378, 3760465.490, 193.62, 3.66, 2.33

\*\* 439941.655, 3760464.977, 193.56, 3.66, 2.33

\*\* 440094.749, 3760465.148, 193.70, 3.66, 2.33

\*\* 440334.726, 3760466.319, 194.72, 3.66, 2.33

\*\* 440497.808, 3760467.090, 195.14, 3.66, 2.33

\*\* 440776.167, 3760467.090, 196.68, 3.66, 2.33

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LOCATION L0041102	VOLUME	439900.877	3760465.460	193.70
LOCATION L0041103	VOLUME	439905.877	3760465.401	193.70
LOCATION L0041104	VOLUME	439910.877	3760465.342	193.70
LOCATION L0041105	VOLUME	439915.876	3760465.283	193.71
LOCATION L0041106	VOLUME	439920.876	3760465.223	193.71
LOCATION L0041107	VOLUME	439925.876	3760465.164	193.70
LOCATION L0041108	VOLUME	439930.875	3760465.105	193.68
LOCATION L0041109	VOLUME	439935.875	3760465.045	193.65
LOCATION L0041110	VOLUME	439940.875	3760464.986	193.63
LOCATION L0041111	VOLUME	439945.875	3760464.982	193.61
LOCATION L0041112	VOLUME	439950.875	3760464.987	193.59
LOCATION L0041113	VOLUME	439955.875	3760464.993	193.58
LOCATION L0041114	VOLUME	439960.875	3760464.998	193.58
LOCATION L0041115	VOLUME	439965.875	3760465.004	193.57
LOCATION L0041116	VOLUME	439970.875	3760465.010	193.56
LOCATION L0041117	VOLUME	439975.875	3760465.015	193.56
LOCATION L0041118	VOLUME	439980.875	3760465.021	193.56
LOCATION L0041119	VOLUME	439985.875	3760465.026	193.57
LOCATION L0041120	VOLUME	439990.875	3760465.032	193.57
LOCATION L0041121	VOLUME	439995.875	3760465.037	193.57
LOCATION L0041122	VOLUME	440000.875	3760465.043	193.58
LOCATION L0041123	VOLUME	440005.875	3760465.049	193.58

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LOCATION L0041124	VOLUME	440010.875	3760465.054	193.58
LOCATION L0041125	VOLUME	440015.875	3760465.060	193.58
LOCATION L0041126	VOLUME	440020.875	3760465.065	193.58
LOCATION L0041127	VOLUME	440025.874	3760465.071	193.59
LOCATION L0041128	VOLUME	440030.874	3760465.077	193.59
LOCATION L0041129	VOLUME	440035.874	3760465.082	193.59
LOCATION L0041130	VOLUME	440040.874	3760465.088	193.60
LOCATION L0041131	VOLUME	440045.874	3760465.093	193.60
LOCATION L0041132	VOLUME	440050.874	3760465.099	193.60
LOCATION L0041133	VOLUME	440055.874	3760465.105	193.61
LOCATION L0041134	VOLUME	440060.874	3760465.110	193.62
LOCATION L0041135	VOLUME	440065.874	3760465.116	193.63
LOCATION L0041136	VOLUME	440070.874	3760465.121	193.64
LOCATION L0041137	VOLUME	440075.874	3760465.127	193.65
LOCATION L0041138	VOLUME	440080.874	3760465.132	193.65
LOCATION L0041139	VOLUME	440085.874	3760465.138	193.66
LOCATION L0041140	VOLUME	440090.874	3760465.144	193.66
LOCATION L0041141	VOLUME	440095.874	3760465.153	193.66
LOCATION L0041142	VOLUME	440100.874	3760465.178	193.67
LOCATION L0041143	VOLUME	440105.874	3760465.202	193.68
LOCATION L0041144	VOLUME	440110.874	3760465.227	193.69
LOCATION L0041145	VOLUME	440115.874	3760465.251	193.70
LOCATION L0041146	VOLUME	440120.874	3760465.275	193.72
LOCATION L0041147	VOLUME	440125.874	3760465.300	193.73
LOCATION L0041148	VOLUME	440130.874	3760465.324	193.75
LOCATION L0041149	VOLUME	440135.874	3760465.349	193.78
LOCATION L0041150	VOLUME	440140.874	3760465.373	193.80
LOCATION L0041151	VOLUME	440145.874	3760465.397	193.83
LOCATION L0041152	VOLUME	440150.874	3760465.422	193.86
LOCATION L0041153	VOLUME	440155.874	3760465.446	193.88
LOCATION L0041154	VOLUME	440160.874	3760465.471	193.91
LOCATION L0041155	VOLUME	440165.874	3760465.495	193.94
LOCATION L0041156	VOLUME	440170.874	3760465.520	193.97
LOCATION L0041157	VOLUME	440175.873	3760465.544	194.00
LOCATION L0041158	VOLUME	440180.873	3760465.568	194.02
LOCATION L0041159	VOLUME	440185.873	3760465.593	194.05
LOCATION L0041160	VOLUME	440190.873	3760465.617	194.07
LOCATION L0041161	VOLUME	440195.873	3760465.642	194.10
LOCATION L0041162	VOLUME	440200.873	3760465.666	194.12
LOCATION L0041163	VOLUME	440205.873	3760465.690	194.14
LOCATION L0041164	VOLUME	440210.873	3760465.715	194.16
LOCATION L0041165	VOLUME	440215.873	3760465.739	194.18
LOCATION L0041166	VOLUME	440220.873	3760465.764	194.19
LOCATION L0041167	VOLUME	440225.873	3760465.788	194.21
LOCATION L0041168	VOLUME	440230.873	3760465.812	194.22
LOCATION L0041169	VOLUME	440235.873	3760465.837	194.26
LOCATION L0041170	VOLUME	440240.873	3760465.861	194.30
LOCATION L0041171	VOLUME	440245.873	3760465.886	194.33



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LOCATION L0041172	VOLUME	440250.873	3760465.910	194.37
LOCATION L0041173	VOLUME	440255.873	3760465.934	194.41
LOCATION L0041174	VOLUME	440260.872	3760465.959	194.44
LOCATION L0041175	VOLUME	440265.872	3760465.983	194.47
LOCATION L0041176	VOLUME	440270.872	3760466.008	194.50
LOCATION L0041177	VOLUME	440275.872	3760466.032	194.53
LOCATION L0041178	VOLUME	440280.872	3760466.056	194.56
LOCATION L0041179	VOLUME	440285.872	3760466.081	194.57
LOCATION L0041180	VOLUME	440290.872	3760466.105	194.59
LOCATION L0041181	VOLUME	440295.872	3760466.130	194.60
LOCATION L0041182	VOLUME	440300.872	3760466.154	194.62
LOCATION L0041183	VOLUME	440305.872	3760466.178	194.63
LOCATION L0041184	VOLUME	440310.872	3760466.203	194.65
LOCATION L0041185	VOLUME	440315.872	3760466.227	194.67
LOCATION L0041186	VOLUME	440320.872	3760466.252	194.69
LOCATION L0041187	VOLUME	440325.872	3760466.276	194.71
LOCATION L0041188	VOLUME	440330.872	3760466.300	194.73
LOCATION L0041189	VOLUME	440335.872	3760466.325	194.76
LOCATION L0041190	VOLUME	440340.872	3760466.348	194.78
LOCATION L0041191	VOLUME	440345.871	3760466.372	194.80
LOCATION L0041192	VOLUME	440350.871	3760466.396	194.82
LOCATION L0041193	VOLUME	440355.871	3760466.419	194.84
LOCATION L0041194	VOLUME	440360.871	3760466.443	194.88
LOCATION L0041195	VOLUME	440365.871	3760466.466	194.94
LOCATION L0041196	VOLUME	440370.871	3760466.490	195.00
LOCATION L0041197	VOLUME	440375.871	3760466.514	195.07
LOCATION L0041198	VOLUME	440380.871	3760466.537	195.13
LOCATION L0041199	VOLUME	440385.871	3760466.561	195.19
LOCATION L0041200	VOLUME	440390.871	3760466.585	195.21
LOCATION L0041201	VOLUME	440395.871	3760466.608	195.23
LOCATION L0041202	VOLUME	440400.871	3760466.632	195.25
LOCATION L0041203	VOLUME	440405.871	3760466.656	195.27
LOCATION L0041204	VOLUME	440410.871	3760466.679	195.29
LOCATION L0041205	VOLUME	440415.871	3760466.703	195.24
LOCATION L0041206	VOLUME	440420.871	3760466.726	195.20
LOCATION L0041207	VOLUME	440425.871	3760466.750	195.15
LOCATION L0041208	VOLUME	440430.871	3760466.774	195.11
LOCATION L0041209	VOLUME	440435.870	3760466.797	195.06
LOCATION L0041210	VOLUME	440440.870	3760466.821	195.07
LOCATION L0041211	VOLUME	440445.870	3760466.845	195.08
LOCATION L0041212	VOLUME	440450.870	3760466.868	195.09
LOCATION L0041213	VOLUME	440455.870	3760466.892	195.11
LOCATION L0041214	VOLUME	440460.870	3760466.916	195.12
LOCATION L0041215	VOLUME	440465.870	3760466.939	195.13
LOCATION L0041216	VOLUME	440470.870	3760466.963	195.14
LOCATION L0041217	VOLUME	440475.870	3760466.987	195.15
LOCATION L0041218	VOLUME	440480.870	3760467.010	195.16
LOCATION L0041219	VOLUME	440485.870	3760467.034	195.17

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LOCATION L0041220	VOLUME	440490.870	3760467.057	195.18
LOCATION L0041221	VOLUME	440495.870	3760467.081	195.20
LOCATION L0041222	VOLUME	440500.870	3760467.090	195.21
LOCATION L0041223	VOLUME	440505.870	3760467.090	195.22
LOCATION L0041224	VOLUME	440510.870	3760467.090	195.23
LOCATION L0041225	VOLUME	440515.870	3760467.090	195.25
LOCATION L0041226	VOLUME	440520.870	3760467.090	195.26
LOCATION L0041227	VOLUME	440525.870	3760467.090	195.28
LOCATION L0041228	VOLUME	440530.870	3760467.090	195.29
LOCATION L0041229	VOLUME	440535.870	3760467.090	195.31
LOCATION L0041230	VOLUME	440540.870	3760467.090	195.32
LOCATION L0041231	VOLUME	440545.870	3760467.090	195.34
LOCATION L0041232	VOLUME	440550.870	3760467.090	195.35
LOCATION L0041233	VOLUME	440555.870	3760467.090	195.37
LOCATION L0041234	VOLUME	440560.870	3760467.090	195.38
LOCATION L0041235	VOLUME	440565.870	3760467.090	195.40
LOCATION L0041236	VOLUME	440570.870	3760467.090	195.42
LOCATION L0041237	VOLUME	440575.870	3760467.090	195.43
LOCATION L0041238	VOLUME	440580.870	3760467.090	195.45
LOCATION L0041239	VOLUME	440585.870	3760467.090	195.47
LOCATION L0041240	VOLUME	440590.870	3760467.090	195.49
LOCATION L0041241	VOLUME	440595.870	3760467.090	195.51
LOCATION L0041242	VOLUME	440600.870	3760467.090	195.52
LOCATION L0041243	VOLUME	440605.870	3760467.090	195.54
LOCATION L0041244	VOLUME	440610.870	3760467.090	195.55
LOCATION L0041245	VOLUME	440615.870	3760467.090	195.57
LOCATION L0041246	VOLUME	440620.870	3760467.090	195.58
LOCATION L0041247	VOLUME	440625.870	3760467.090	195.60
LOCATION L0041248	VOLUME	440630.870	3760467.090	195.61
LOCATION L0041249	VOLUME	440635.870	3760467.090	195.63
LOCATION L0041250	VOLUME	440640.870	3760467.090	195.64
LOCATION L0041251	VOLUME	440645.870	3760467.090	195.66
LOCATION L0041252	VOLUME	440650.870	3760467.090	195.68
LOCATION L0041253	VOLUME	440655.870	3760467.090	195.70
LOCATION L0041254	VOLUME	440660.870	3760467.090	195.72
LOCATION L0041255	VOLUME	440665.870	3760467.090	195.73
LOCATION L0041256	VOLUME	440670.870	3760467.090	195.76
LOCATION L0041257	VOLUME	440675.870	3760467.090	195.78
LOCATION L0041258	VOLUME	440680.870	3760467.090	195.81
LOCATION L0041259	VOLUME	440685.870	3760467.090	195.83
LOCATION L0041260	VOLUME	440690.870	3760467.090	195.85
LOCATION L0041261	VOLUME	440695.870	3760467.090	195.88
LOCATION L0041262	VOLUME	440700.870	3760467.090	195.90
LOCATION L0041263	VOLUME	440705.870	3760467.090	195.93
LOCATION L0041264	VOLUME	440710.870	3760467.090	195.95
LOCATION L0041265	VOLUME	440715.870	3760467.090	195.98
LOCATION L0041266	VOLUME	440720.870	3760467.090	196.01
LOCATION L0041267	VOLUME	440725.870	3760467.090	196.05

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LOCATION L0041268	VOLUME	440730.870	3760467.090	196.09
LOCATION L0041269	VOLUME	440735.870	3760467.090	196.13
LOCATION L0041270	VOLUME	440740.870	3760467.090	196.17
LOCATION L0041271	VOLUME	440745.870	3760467.090	196.23
LOCATION L0041272	VOLUME	440750.870	3760467.090	196.31
LOCATION L0041273	VOLUME	440755.870	3760467.090	196.38
LOCATION L0041274	VOLUME	440760.870	3760467.090	196.46
LOCATION L0041275	VOLUME	440765.870	3760467.090	196.54
LOCATION L0041276	VOLUME	440770.870	3760467.090	196.61
LOCATION L0041277	VOLUME	440775.870	3760467.090	196.63

\*\* End of LINE VOLUME Source ID = SLINE4

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Merrill Ave - Archibald Ave to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000437

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 21

** 441994.232,	3760466.531,	199.91,	3.66,	2.33
** 442337.340,	3760467.379,	200.89,	3.66,	2.33
** 442503.283,	3760469.894,	201.12,	3.66,	2.33
** 442854.597,	3760466.401,	200.93,	3.66,	2.33
** 442983.505,	3760465.947,	201.47,	3.66,	2.33
** 443292.157,	3760466.401,	202.70,	3.66,	2.33
** 443593.547,	3760465.947,	203.28,	3.66,	2.33
** 443681.150,	3760465.947,	203.44,	3.66,	2.33
** 443881.774,	3760467.309,	204.27,	3.66,	2.33
** 443927.465,	3760467.312,	204.55,	3.66,	2.33
** 443985.566,	3760467.312,	204.15,	3.66,	2.33
** 444034.589,	3760457.326,	203.45,	3.66,	2.33
** 444086.336,	3760434.630,	203.02,	3.66,	2.33
** 444136.267,	3760419.197,	202.57,	3.66,	2.33
** 444194.822,	3760412.388,	202.15,	3.66,	2.33
** 444298.314,	3760411.481,	201.97,	3.66,	2.33
** 444469.587,	3760409.272,	201.83,	3.66,	2.33
** 444641.744,	3760409.901,	198.12,	3.66,	2.33
** 444846.603,	3760403.420,	201.24,	3.66,	2.33
** 445150.117,	3760398.202,	201.58,	3.66,	2.33
** 445194.282,	3760399.929,	201.44,	3.66,	2.33

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LOCATION L0041278	VOLUME	441996.732	3760466.537	199.87
LOCATION L0041279	VOLUME	442001.732	3760466.550	199.84
LOCATION L0041280	VOLUME	442006.732	3760466.562	199.92
LOCATION L0041281	VOLUME	442011.732	3760466.575	200.01

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LOCATION L0041282	VOLUME	442016.732	3760466.587	200.10
LOCATION L0041283	VOLUME	442021.732	3760466.599	200.19
LOCATION L0041284	VOLUME	442026.732	3760466.612	200.28
LOCATION L0041285	VOLUME	442031.732	3760466.624	200.30
LOCATION L0041286	VOLUME	442036.732	3760466.636	200.31
LOCATION L0041287	VOLUME	442041.732	3760466.649	200.32
LOCATION L0041288	VOLUME	442046.732	3760466.661	200.34
LOCATION L0041289	VOLUME	442051.732	3760466.673	200.35
LOCATION L0041290	VOLUME	442056.732	3760466.686	200.36
LOCATION L0041291	VOLUME	442061.732	3760466.698	200.36
LOCATION L0041292	VOLUME	442066.732	3760466.710	200.36
LOCATION L0041293	VOLUME	442071.732	3760466.723	200.36
LOCATION L0041294	VOLUME	442076.732	3760466.735	200.36
LOCATION L0041295	VOLUME	442081.732	3760466.747	200.36
LOCATION L0041296	VOLUME	442086.732	3760466.760	200.36
LOCATION L0041297	VOLUME	442091.732	3760466.772	200.36
LOCATION L0041298	VOLUME	442096.732	3760466.784	200.35
LOCATION L0041299	VOLUME	442101.732	3760466.797	200.35
LOCATION L0041300	VOLUME	442106.732	3760466.809	200.35
LOCATION L0041301	VOLUME	442111.732	3760466.822	200.34
LOCATION L0041302	VOLUME	442116.732	3760466.834	200.34
LOCATION L0041303	VOLUME	442121.732	3760466.846	200.34
LOCATION L0041304	VOLUME	442126.732	3760466.859	200.33
LOCATION L0041305	VOLUME	442131.732	3760466.871	200.33
LOCATION L0041306	VOLUME	442136.732	3760466.883	200.34
LOCATION L0041307	VOLUME	442141.732	3760466.896	200.34
LOCATION L0041308	VOLUME	442146.732	3760466.908	200.34
LOCATION L0041309	VOLUME	442151.732	3760466.920	200.35
LOCATION L0041310	VOLUME	442156.732	3760466.933	200.35
LOCATION L0041311	VOLUME	442161.732	3760466.945	200.36
LOCATION L0041312	VOLUME	442166.732	3760466.957	200.36
LOCATION L0041313	VOLUME	442171.732	3760466.970	200.37
LOCATION L0041314	VOLUME	442176.732	3760466.982	200.37
LOCATION L0041315	VOLUME	442181.732	3760466.994	200.38
LOCATION L0041316	VOLUME	442186.732	3760467.007	200.38
LOCATION L0041317	VOLUME	442191.732	3760467.019	200.38
LOCATION L0041318	VOLUME	442196.732	3760467.031	200.39
LOCATION L0041319	VOLUME	442201.732	3760467.044	200.39
LOCATION L0041320	VOLUME	442206.732	3760467.056	200.39
LOCATION L0041321	VOLUME	442211.732	3760467.069	200.40
LOCATION L0041322	VOLUME	442216.732	3760467.081	200.41
LOCATION L0041323	VOLUME	442221.732	3760467.093	200.42
LOCATION L0041324	VOLUME	442226.732	3760467.106	200.43
LOCATION L0041325	VOLUME	442231.732	3760467.118	200.44
LOCATION L0041326	VOLUME	442236.732	3760467.130	200.45
LOCATION L0041327	VOLUME	442241.732	3760467.143	200.47
LOCATION L0041328	VOLUME	442246.732	3760467.155	200.49
LOCATION L0041329	VOLUME	442251.731	3760467.167	200.51

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LOCATION L0041330	VOLUME	442256.731	3760467.180	200.53
LOCATION L0041331	VOLUME	442261.731	3760467.192	200.55
LOCATION L0041332	VOLUME	442266.731	3760467.204	200.57
LOCATION L0041333	VOLUME	442271.731	3760467.217	200.59
LOCATION L0041334	VOLUME	442276.731	3760467.229	200.61
LOCATION L0041335	VOLUME	442281.731	3760467.241	200.63
LOCATION L0041336	VOLUME	442286.731	3760467.254	200.65
LOCATION L0041337	VOLUME	442291.731	3760467.266	200.66
LOCATION L0041338	VOLUME	442296.731	3760467.278	200.68
LOCATION L0041339	VOLUME	442301.731	3760467.291	200.69
LOCATION L0041340	VOLUME	442306.731	3760467.303	200.70
LOCATION L0041341	VOLUME	442311.731	3760467.316	200.73
LOCATION L0041342	VOLUME	442316.731	3760467.328	200.76
LOCATION L0041343	VOLUME	442321.731	3760467.340	200.79
LOCATION L0041344	VOLUME	442326.731	3760467.353	200.82
LOCATION L0041345	VOLUME	442331.731	3760467.365	200.85
LOCATION L0041346	VOLUME	442336.731	3760467.377	200.88
LOCATION L0041347	VOLUME	442341.731	3760467.445	200.90
LOCATION L0041348	VOLUME	442346.730	3760467.521	200.93
LOCATION L0041349	VOLUME	442351.730	3760467.597	200.96
LOCATION L0041350	VOLUME	442356.729	3760467.673	200.98
LOCATION L0041351	VOLUME	442361.728	3760467.748	201.00
LOCATION L0041352	VOLUME	442366.728	3760467.824	201.00
LOCATION L0041353	VOLUME	442371.727	3760467.900	201.00
LOCATION L0041354	VOLUME	442376.727	3760467.976	200.99
LOCATION L0041355	VOLUME	442381.726	3760468.052	200.99
LOCATION L0041356	VOLUME	442386.726	3760468.127	200.99
LOCATION L0041357	VOLUME	442391.725	3760468.203	201.01
LOCATION L0041358	VOLUME	442396.724	3760468.279	201.04
LOCATION L0041359	VOLUME	442401.724	3760468.355	201.06
LOCATION L0041360	VOLUME	442406.723	3760468.431	201.09
LOCATION L0041361	VOLUME	442411.723	3760468.506	201.11
LOCATION L0041362	VOLUME	442416.722	3760468.582	201.13
LOCATION L0041363	VOLUME	442421.722	3760468.658	201.14
LOCATION L0041364	VOLUME	442426.721	3760468.734	201.15
LOCATION L0041365	VOLUME	442431.720	3760468.810	201.17
LOCATION L0041366	VOLUME	442436.720	3760468.885	201.18
LOCATION L0041367	VOLUME	442441.719	3760468.961	201.18
LOCATION L0041368	VOLUME	442446.719	3760469.037	201.18
LOCATION L0041369	VOLUME	442451.718	3760469.113	201.17
LOCATION L0041370	VOLUME	442456.718	3760469.189	201.17
LOCATION L0041371	VOLUME	442461.717	3760469.264	201.17
LOCATION L0041372	VOLUME	442466.716	3760469.340	201.16
LOCATION L0041373	VOLUME	442471.716	3760469.416	201.16
LOCATION L0041374	VOLUME	442476.715	3760469.492	201.15
LOCATION L0041375	VOLUME	442481.715	3760469.567	201.14
LOCATION L0041376	VOLUME	442486.714	3760469.643	201.13
LOCATION L0041377	VOLUME	442491.713	3760469.719	201.13

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LOCATION L0041378	VOLUME	442496.713	3760469.795	201.12
LOCATION L0041379	VOLUME	442501.712	3760469.871	201.11
LOCATION L0041380	VOLUME	442506.712	3760469.860	201.11
LOCATION L0041381	VOLUME	442511.712	3760469.811	201.10
LOCATION L0041382	VOLUME	442516.712	3760469.761	201.09
LOCATION L0041383	VOLUME	442521.711	3760469.711	201.08
LOCATION L0041384	VOLUME	442526.711	3760469.662	201.07
LOCATION L0041385	VOLUME	442531.711	3760469.612	201.06
LOCATION L0041386	VOLUME	442536.711	3760469.562	201.05
LOCATION L0041387	VOLUME	442541.710	3760469.512	201.04
LOCATION L0041388	VOLUME	442546.710	3760469.463	201.03
LOCATION L0041389	VOLUME	442551.710	3760469.413	201.02
LOCATION L0041390	VOLUME	442556.710	3760469.363	201.01
LOCATION L0041391	VOLUME	442561.709	3760469.314	201.00
LOCATION L0041392	VOLUME	442566.709	3760469.264	200.99
LOCATION L0041393	VOLUME	442571.709	3760469.214	200.97
LOCATION L0041394	VOLUME	442576.709	3760469.164	200.96
LOCATION L0041395	VOLUME	442581.708	3760469.115	200.94
LOCATION L0041396	VOLUME	442586.708	3760469.065	200.93
LOCATION L0041397	VOLUME	442591.708	3760469.015	200.91
LOCATION L0041398	VOLUME	442596.708	3760468.966	200.91
LOCATION L0041399	VOLUME	442601.707	3760468.916	200.91
LOCATION L0041400	VOLUME	442606.707	3760468.866	200.90
LOCATION L0041401	VOLUME	442611.707	3760468.816	200.90
LOCATION L0041402	VOLUME	442616.707	3760468.767	200.90
LOCATION L0041403	VOLUME	442621.706	3760468.717	200.90
LOCATION L0041404	VOLUME	442626.706	3760468.667	200.89
LOCATION L0041405	VOLUME	442631.706	3760468.618	200.89
LOCATION L0041406	VOLUME	442636.706	3760468.568	200.89
LOCATION L0041407	VOLUME	442641.705	3760468.518	200.88
LOCATION L0041408	VOLUME	442646.705	3760468.468	200.88
LOCATION L0041409	VOLUME	442651.705	3760468.419	200.87
LOCATION L0041410	VOLUME	442656.705	3760468.369	200.87
LOCATION L0041411	VOLUME	442661.704	3760468.319	200.86
LOCATION L0041412	VOLUME	442666.704	3760468.270	200.85
LOCATION L0041413	VOLUME	442671.704	3760468.220	200.85
LOCATION L0041414	VOLUME	442676.704	3760468.170	200.84
LOCATION L0041415	VOLUME	442681.703	3760468.120	200.83
LOCATION L0041416	VOLUME	442686.703	3760468.071	200.83
LOCATION L0041417	VOLUME	442691.703	3760468.021	200.82
LOCATION L0041418	VOLUME	442696.703	3760467.971	200.82
LOCATION L0041419	VOLUME	442701.702	3760467.922	200.82
LOCATION L0041420	VOLUME	442706.702	3760467.872	200.83
LOCATION L0041421	VOLUME	442711.702	3760467.822	200.83
LOCATION L0041422	VOLUME	442716.702	3760467.772	200.83
LOCATION L0041423	VOLUME	442721.701	3760467.723	200.84
LOCATION L0041424	VOLUME	442726.701	3760467.673	200.85
LOCATION L0041425	VOLUME	442731.701	3760467.623	200.86

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LOCATION L0041426	VOLUME	442736.701	3760467.574	200.87
LOCATION L0041427	VOLUME	442741.700	3760467.524	200.88
LOCATION L0041428	VOLUME	442746.700	3760467.474	200.89
LOCATION L0041429	VOLUME	442751.700	3760467.424	200.87
LOCATION L0041430	VOLUME	442756.700	3760467.375	200.86
LOCATION L0041431	VOLUME	442761.699	3760467.325	200.85
LOCATION L0041432	VOLUME	442766.699	3760467.275	200.84
LOCATION L0041433	VOLUME	442771.699	3760467.226	200.83
LOCATION L0041434	VOLUME	442776.699	3760467.176	200.83
LOCATION L0041435	VOLUME	442781.698	3760467.126	200.83
LOCATION L0041436	VOLUME	442786.698	3760467.076	200.83
LOCATION L0041437	VOLUME	442791.698	3760467.027	200.83
LOCATION L0041438	VOLUME	442796.698	3760466.977	200.83
LOCATION L0041439	VOLUME	442801.697	3760466.927	200.82
LOCATION L0041440	VOLUME	442806.697	3760466.878	200.82
LOCATION L0041441	VOLUME	442811.697	3760466.828	200.81
LOCATION L0041442	VOLUME	442816.697	3760466.778	200.81
LOCATION L0041443	VOLUME	442821.696	3760466.728	200.81
LOCATION L0041444	VOLUME	442826.696	3760466.679	200.82
LOCATION L0041445	VOLUME	442831.696	3760466.629	200.84
LOCATION L0041446	VOLUME	442836.696	3760466.579	200.87
LOCATION L0041447	VOLUME	442841.695	3760466.530	200.89
LOCATION L0041448	VOLUME	442846.695	3760466.480	200.91
LOCATION L0041449	VOLUME	442851.695	3760466.430	200.93
LOCATION L0041450	VOLUME	442856.695	3760466.394	200.96
LOCATION L0041451	VOLUME	442861.695	3760466.376	200.98
LOCATION L0041452	VOLUME	442866.695	3760466.359	201.01
LOCATION L0041453	VOLUME	442871.695	3760466.341	201.04
LOCATION L0041454	VOLUME	442876.695	3760466.323	201.05
LOCATION L0041455	VOLUME	442881.695	3760466.306	201.07
LOCATION L0041456	VOLUME	442886.695	3760466.288	201.08
LOCATION L0041457	VOLUME	442891.695	3760466.271	201.09
LOCATION L0041458	VOLUME	442896.695	3760466.253	201.10
LOCATION L0041459	VOLUME	442901.695	3760466.235	201.11
LOCATION L0041460	VOLUME	442906.694	3760466.218	201.13
LOCATION L0041461	VOLUME	442911.694	3760466.200	201.15
LOCATION L0041462	VOLUME	442916.694	3760466.183	201.18
LOCATION L0041463	VOLUME	442921.694	3760466.165	201.20
LOCATION L0041464	VOLUME	442926.694	3760466.147	201.22
LOCATION L0041465	VOLUME	442931.694	3760466.130	201.24
LOCATION L0041466	VOLUME	442936.694	3760466.112	201.26
LOCATION L0041467	VOLUME	442941.694	3760466.095	201.29
LOCATION L0041468	VOLUME	442946.694	3760466.077	201.31
LOCATION L0041469	VOLUME	442951.694	3760466.059	201.33
LOCATION L0041470	VOLUME	442956.694	3760466.042	201.35
LOCATION L0041471	VOLUME	442961.694	3760466.024	201.38
LOCATION L0041472	VOLUME	442966.694	3760466.007	201.40
LOCATION L0041473	VOLUME	442971.694	3760465.989	201.42

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LOCATION L0041474	VOLUME	442976.694	3760465.971	201.44
LOCATION L0041475	VOLUME	442981.694	3760465.954	201.50
LOCATION L0041476	VOLUME	442986.694	3760465.952	201.56
LOCATION L0041477	VOLUME	442991.694	3760465.959	201.62
LOCATION L0041478	VOLUME	442996.694	3760465.967	201.68
LOCATION L0041479	VOLUME	443001.694	3760465.974	201.75
LOCATION L0041480	VOLUME	443006.694	3760465.981	201.76
LOCATION L0041481	VOLUME	443011.694	3760465.989	201.77
LOCATION L0041482	VOLUME	443016.694	3760465.996	201.78
LOCATION L0041483	VOLUME	443021.694	3760466.004	201.78
LOCATION L0041484	VOLUME	443026.694	3760466.011	201.79
LOCATION L0041485	VOLUME	443031.694	3760466.018	201.78
LOCATION L0041486	VOLUME	443036.694	3760466.026	201.77
LOCATION L0041487	VOLUME	443041.694	3760466.033	201.75
LOCATION L0041488	VOLUME	443046.694	3760466.040	201.74
LOCATION L0041489	VOLUME	443051.694	3760466.048	201.72
LOCATION L0041490	VOLUME	443056.694	3760466.055	201.72
LOCATION L0041491	VOLUME	443061.694	3760466.062	201.73
LOCATION L0041492	VOLUME	443066.694	3760466.070	201.74
LOCATION L0041493	VOLUME	443071.694	3760466.077	201.75
LOCATION L0041494	VOLUME	443076.694	3760466.084	201.75
LOCATION L0041495	VOLUME	443081.694	3760466.092	201.76
LOCATION L0041496	VOLUME	443086.694	3760466.099	201.78
LOCATION L0041497	VOLUME	443091.694	3760466.106	201.79
LOCATION L0041498	VOLUME	443096.694	3760466.114	201.80
LOCATION L0041499	VOLUME	443101.694	3760466.121	201.81
LOCATION L0041500	VOLUME	443106.694	3760466.129	201.83
LOCATION L0041501	VOLUME	443111.694	3760466.136	201.84
LOCATION L0041502	VOLUME	443116.694	3760466.143	201.86
LOCATION L0041503	VOLUME	443121.694	3760466.151	201.88
LOCATION L0041504	VOLUME	443126.694	3760466.158	201.89
LOCATION L0041505	VOLUME	443131.694	3760466.165	201.91
LOCATION L0041506	VOLUME	443136.694	3760466.173	201.93
LOCATION L0041507	VOLUME	443141.694	3760466.180	201.96
LOCATION L0041508	VOLUME	443146.694	3760466.187	201.98
LOCATION L0041509	VOLUME	443151.694	3760466.195	202.00
LOCATION L0041510	VOLUME	443156.694	3760466.202	202.03
LOCATION L0041511	VOLUME	443161.694	3760466.209	202.08
LOCATION L0041512	VOLUME	443166.694	3760466.217	202.12
LOCATION L0041513	VOLUME	443171.694	3760466.224	202.17
LOCATION L0041514	VOLUME	443176.694	3760466.231	202.21
LOCATION L0041515	VOLUME	443181.694	3760466.239	202.26
LOCATION L0041516	VOLUME	443186.694	3760466.246	202.34
LOCATION L0041517	VOLUME	443191.694	3760466.254	202.42
LOCATION L0041518	VOLUME	443196.694	3760466.261	202.50
LOCATION L0041519	VOLUME	443201.694	3760466.268	202.58
LOCATION L0041520	VOLUME	443206.694	3760466.276	202.66
LOCATION L0041521	VOLUME	443211.694	3760466.283	202.69



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LOCATION L0041522	VOLUME	443216.694	3760466.290	202.71
LOCATION L0041523	VOLUME	443221.694	3760466.298	202.73
LOCATION L0041524	VOLUME	443226.694	3760466.305	202.75
LOCATION L0041525	VOLUME	443231.694	3760466.312	202.76
LOCATION L0041526	VOLUME	443236.694	3760466.320	202.77
LOCATION L0041527	VOLUME	443241.694	3760466.327	202.77
LOCATION L0041528	VOLUME	443246.694	3760466.334	202.76
LOCATION L0041529	VOLUME	443251.694	3760466.342	202.76
LOCATION L0041530	VOLUME	443256.694	3760466.349	202.76
LOCATION L0041531	VOLUME	443261.694	3760466.356	202.77
LOCATION L0041532	VOLUME	443266.694	3760466.364	202.78
LOCATION L0041533	VOLUME	443271.694	3760466.371	202.80
LOCATION L0041534	VOLUME	443276.694	3760466.379	202.82
LOCATION L0041535	VOLUME	443281.694	3760466.386	202.83
LOCATION L0041536	VOLUME	443286.694	3760466.393	202.84
LOCATION L0041537	VOLUME	443291.694	3760466.401	202.85
LOCATION L0041538	VOLUME	443296.694	3760466.394	202.86
LOCATION L0041539	VOLUME	443301.694	3760466.387	202.86
LOCATION L0041540	VOLUME	443306.694	3760466.379	202.87
LOCATION L0041541	VOLUME	443311.694	3760466.372	202.89
LOCATION L0041542	VOLUME	443316.694	3760466.364	202.91
LOCATION L0041543	VOLUME	443321.694	3760466.357	202.94
LOCATION L0041544	VOLUME	443326.694	3760466.349	202.97
LOCATION L0041545	VOLUME	443331.694	3760466.342	202.99
LOCATION L0041546	VOLUME	443336.694	3760466.334	203.02
LOCATION L0041547	VOLUME	443341.694	3760466.327	203.03
LOCATION L0041548	VOLUME	443346.694	3760466.319	203.03
LOCATION L0041549	VOLUME	443351.694	3760466.312	203.04
LOCATION L0041550	VOLUME	443356.694	3760466.304	203.05
LOCATION L0041551	VOLUME	443361.694	3760466.297	203.06
LOCATION L0041552	VOLUME	443366.694	3760466.289	203.08
LOCATION L0041553	VOLUME	443371.694	3760466.281	203.10
LOCATION L0041554	VOLUME	443376.694	3760466.274	203.12
LOCATION L0041555	VOLUME	443381.694	3760466.266	203.14
LOCATION L0041556	VOLUME	443386.694	3760466.259	203.17
LOCATION L0041557	VOLUME	443391.694	3760466.251	203.17
LOCATION L0041558	VOLUME	443396.694	3760466.244	203.17
LOCATION L0041559	VOLUME	443401.694	3760466.236	203.17
LOCATION L0041560	VOLUME	443406.694	3760466.229	203.17
LOCATION L0041561	VOLUME	443411.694	3760466.221	203.17
LOCATION L0041562	VOLUME	443416.694	3760466.214	203.18
LOCATION L0041563	VOLUME	443421.694	3760466.206	203.18
LOCATION L0041564	VOLUME	443426.694	3760466.199	203.18
LOCATION L0041565	VOLUME	443431.694	3760466.191	203.18
LOCATION L0041566	VOLUME	443436.694	3760466.184	203.19
LOCATION L0041567	VOLUME	443441.694	3760466.176	203.19
LOCATION L0041568	VOLUME	443446.693	3760466.169	203.20
LOCATION L0041569	VOLUME	443451.693	3760466.161	203.21

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LOCATION L0041570	VOLUME	443456.693	3760466.153	203.22
LOCATION L0041571	VOLUME	443461.693	3760466.146	203.23
LOCATION L0041572	VOLUME	443466.693	3760466.138	203.24
LOCATION L0041573	VOLUME	443471.693	3760466.131	203.25
LOCATION L0041574	VOLUME	443476.693	3760466.123	203.26
LOCATION L0041575	VOLUME	443481.693	3760466.116	203.27
LOCATION L0041576	VOLUME	443486.693	3760466.108	203.27
LOCATION L0041577	VOLUME	443491.693	3760466.101	203.28
LOCATION L0041578	VOLUME	443496.693	3760466.093	203.27
LOCATION L0041579	VOLUME	443501.693	3760466.086	203.27
LOCATION L0041580	VOLUME	443506.693	3760466.078	203.27
LOCATION L0041581	VOLUME	443511.693	3760466.071	203.26
LOCATION L0041582	VOLUME	443516.693	3760466.063	203.26
LOCATION L0041583	VOLUME	443521.693	3760466.056	203.25
LOCATION L0041584	VOLUME	443526.693	3760466.048	203.25
LOCATION L0041585	VOLUME	443531.693	3760466.041	203.25
LOCATION L0041586	VOLUME	443536.693	3760466.033	203.25
LOCATION L0041587	VOLUME	443541.693	3760466.025	203.24
LOCATION L0041588	VOLUME	443546.693	3760466.018	203.25
LOCATION L0041589	VOLUME	443551.693	3760466.010	203.25
LOCATION L0041590	VOLUME	443556.693	3760466.003	203.25
LOCATION L0041591	VOLUME	443561.693	3760465.995	203.25
LOCATION L0041592	VOLUME	443566.693	3760465.988	203.25
LOCATION L0041593	VOLUME	443571.693	3760465.980	203.26
LOCATION L0041594	VOLUME	443576.693	3760465.973	203.26
LOCATION L0041595	VOLUME	443581.693	3760465.965	203.26
LOCATION L0041596	VOLUME	443586.693	3760465.958	203.26
LOCATION L0041597	VOLUME	443591.693	3760465.950	203.26
LOCATION L0041598	VOLUME	443596.693	3760465.947	203.28
LOCATION L0041599	VOLUME	443601.693	3760465.947	203.29
LOCATION L0041600	VOLUME	443606.693	3760465.947	203.31
LOCATION L0041601	VOLUME	443611.693	3760465.947	203.33
LOCATION L0041602	VOLUME	443616.693	3760465.947	203.35
LOCATION L0041603	VOLUME	443621.693	3760465.947	203.36
LOCATION L0041604	VOLUME	443626.693	3760465.947	203.38
LOCATION L0041605	VOLUME	443631.693	3760465.947	203.39
LOCATION L0041606	VOLUME	443636.693	3760465.947	203.40
LOCATION L0041607	VOLUME	443641.693	3760465.947	203.42
LOCATION L0041608	VOLUME	443646.693	3760465.947	203.43
LOCATION L0041609	VOLUME	443651.693	3760465.947	203.45
LOCATION L0041610	VOLUME	443656.693	3760465.947	203.46
LOCATION L0041611	VOLUME	443661.693	3760465.947	203.48
LOCATION L0041612	VOLUME	443666.693	3760465.947	203.49
LOCATION L0041613	VOLUME	443671.693	3760465.947	203.50
LOCATION L0041614	VOLUME	443676.693	3760465.947	203.51
LOCATION L0041615	VOLUME	443681.693	3760465.951	203.52
LOCATION L0041616	VOLUME	443686.693	3760465.985	203.53
LOCATION L0041617	VOLUME	443691.693	3760466.019	203.53

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LOCATION L0041618	VOLUME	443696.693	3760466.053	203.54
LOCATION L0041619	VOLUME	443701.693	3760466.087	203.55
LOCATION L0041620	VOLUME	443706.693	3760466.121	203.56
LOCATION L0041621	VOLUME	443711.693	3760466.155	203.57
LOCATION L0041622	VOLUME	443716.693	3760466.189	203.58
LOCATION L0041623	VOLUME	443721.692	3760466.223	203.59
LOCATION L0041624	VOLUME	443726.692	3760466.256	203.60
LOCATION L0041625	VOLUME	443731.692	3760466.290	203.62
LOCATION L0041626	VOLUME	443736.692	3760466.324	203.63
LOCATION L0041627	VOLUME	443741.692	3760466.358	203.64
LOCATION L0041628	VOLUME	443746.692	3760466.392	203.65
LOCATION L0041629	VOLUME	443751.692	3760466.426	203.66
LOCATION L0041630	VOLUME	443756.692	3760466.460	203.68
LOCATION L0041631	VOLUME	443761.691	3760466.494	203.70
LOCATION L0041632	VOLUME	443766.691	3760466.528	203.71
LOCATION L0041633	VOLUME	443771.691	3760466.562	203.73
LOCATION L0041634	VOLUME	443776.691	3760466.596	203.75
LOCATION L0041635	VOLUME	443781.691	3760466.630	203.78
LOCATION L0041636	VOLUME	443786.691	3760466.664	203.80
LOCATION L0041637	VOLUME	443791.691	3760466.698	203.83
LOCATION L0041638	VOLUME	443796.691	3760466.732	203.85
LOCATION L0041639	VOLUME	443801.691	3760466.766	203.88
LOCATION L0041640	VOLUME	443806.690	3760466.799	203.90
LOCATION L0041641	VOLUME	443811.690	3760466.833	203.93
LOCATION L0041642	VOLUME	443816.690	3760466.867	203.96
LOCATION L0041643	VOLUME	443821.690	3760466.901	203.98
LOCATION L0041644	VOLUME	443826.690	3760466.935	204.00
LOCATION L0041645	VOLUME	443831.690	3760466.969	204.02
LOCATION L0041646	VOLUME	443836.690	3760467.003	204.04
LOCATION L0041647	VOLUME	443841.690	3760467.037	204.05
LOCATION L0041648	VOLUME	443846.690	3760467.071	204.07
LOCATION L0041649	VOLUME	443851.689	3760467.105	204.10
LOCATION L0041650	VOLUME	443856.689	3760467.139	204.15
LOCATION L0041651	VOLUME	443861.689	3760467.173	204.20
LOCATION L0041652	VOLUME	443866.689	3760467.207	204.25
LOCATION L0041653	VOLUME	443871.689	3760467.241	204.30
LOCATION L0041654	VOLUME	443876.689	3760467.275	204.32
LOCATION L0041655	VOLUME	443881.689	3760467.309	204.32
LOCATION L0041656	VOLUME	443886.689	3760467.309	204.32
LOCATION L0041657	VOLUME	443891.689	3760467.310	204.31
LOCATION L0041658	VOLUME	443896.689	3760467.310	204.30
LOCATION L0041659	VOLUME	443901.689	3760467.310	204.31
LOCATION L0041660	VOLUME	443906.689	3760467.311	204.32
LOCATION L0041661	VOLUME	443911.689	3760467.311	204.34
LOCATION L0041662	VOLUME	443916.689	3760467.311	204.35
LOCATION L0041663	VOLUME	443921.689	3760467.312	204.37
LOCATION L0041664	VOLUME	443926.689	3760467.312	204.39
LOCATION L0041665	VOLUME	443931.689	3760467.312	204.40

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LOCATION L0041666	VOLUME	443936.689	3760467.312	204.42
LOCATION L0041667	VOLUME	443941.689	3760467.312	204.44
LOCATION L0041668	VOLUME	443946.689	3760467.312	204.46
LOCATION L0041669	VOLUME	443951.689	3760467.312	204.47
LOCATION L0041670	VOLUME	443956.689	3760467.312	204.43
LOCATION L0041671	VOLUME	443961.689	3760467.312	204.40
LOCATION L0041672	VOLUME	443966.689	3760467.312	204.36
LOCATION L0041673	VOLUME	443971.689	3760467.312	204.32
LOCATION L0041674	VOLUME	443976.689	3760467.312	204.28
LOCATION L0041675	VOLUME	443981.689	3760467.312	204.21
LOCATION L0041676	VOLUME	443986.666	3760467.088	204.14
LOCATION L0041677	VOLUME	443991.566	3760466.090	204.07
LOCATION L0041678	VOLUME	443996.465	3760465.092	204.00
LOCATION L0041679	VOLUME	444001.364	3760464.094	203.93
LOCATION L0041680	VOLUME	444006.264	3760463.096	203.83
LOCATION L0041681	VOLUME	444011.163	3760462.098	203.73
LOCATION L0041682	VOLUME	444016.062	3760461.100	203.63
LOCATION L0041683	VOLUME	444020.962	3760460.102	203.55
LOCATION L0041684	VOLUME	444025.861	3760459.104	203.47
LOCATION L0041685	VOLUME	444030.761	3760458.106	203.42
LOCATION L0041686	VOLUME	444035.590	3760456.887	203.39
LOCATION L0041687	VOLUME	444040.169	3760454.879	203.36
LOCATION L0041688	VOLUME	444044.748	3760452.871	203.34
LOCATION L0041689	VOLUME	444049.327	3760450.862	203.31
LOCATION L0041690	VOLUME	444053.906	3760448.854	203.29
LOCATION L0041691	VOLUME	444058.485	3760446.846	203.24
LOCATION L0041692	VOLUME	444063.064	3760444.837	203.19
LOCATION L0041693	VOLUME	444067.643	3760442.829	203.14
LOCATION L0041694	VOLUME	444072.221	3760440.821	203.09
LOCATION L0041695	VOLUME	444076.800	3760438.812	203.03
LOCATION L0041696	VOLUME	444081.379	3760436.804	202.97
LOCATION L0041697	VOLUME	444085.958	3760434.796	202.93
LOCATION L0041698	VOLUME	444090.719	3760433.275	202.88
LOCATION L0041699	VOLUME	444095.496	3760431.799	202.82
LOCATION L0041700	VOLUME	444100.273	3760430.322	202.77
LOCATION L0041701	VOLUME	444105.050	3760428.846	202.71
LOCATION L0041702	VOLUME	444109.827	3760427.369	202.69
LOCATION L0041703	VOLUME	444114.604	3760425.893	202.67
LOCATION L0041704	VOLUME	444119.381	3760424.416	202.65
LOCATION L0041705	VOLUME	444124.158	3760422.940	202.63
LOCATION L0041706	VOLUME	444128.935	3760421.463	202.60
LOCATION L0041707	VOLUME	444133.712	3760419.987	202.57
LOCATION L0041708	VOLUME	444138.577	3760418.928	202.52
LOCATION L0041709	VOLUME	444143.544	3760418.351	202.47
LOCATION L0041710	VOLUME	444148.510	3760417.773	202.43
LOCATION L0041711	VOLUME	444153.477	3760417.196	202.38
LOCATION L0041712	VOLUME	444158.443	3760416.618	202.33
LOCATION L0041713	VOLUME	444163.410	3760416.041	202.31

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LOCATION L0041714	VOLUME	444168.376	3760415.463	202.28
LOCATION L0041715	VOLUME	444173.343	3760414.886	202.24
LOCATION L0041716	VOLUME	444178.310	3760414.308	202.21
LOCATION L0041717	VOLUME	444183.276	3760413.731	202.18
LOCATION L0041718	VOLUME	444188.243	3760413.153	202.16
LOCATION L0041719	VOLUME	444193.209	3760412.576	202.15
LOCATION L0041720	VOLUME	444198.198	3760412.359	202.13
LOCATION L0041721	VOLUME	444203.198	3760412.315	202.12
LOCATION L0041722	VOLUME	444208.198	3760412.271	202.10
LOCATION L0041723	VOLUME	444213.198	3760412.227	202.09
LOCATION L0041724	VOLUME	444218.197	3760412.183	202.08
LOCATION L0041725	VOLUME	444223.197	3760412.139	202.06
LOCATION L0041726	VOLUME	444228.197	3760412.096	202.05
LOCATION L0041727	VOLUME	444233.197	3760412.052	202.04
LOCATION L0041728	VOLUME	444238.197	3760412.008	202.03
LOCATION L0041729	VOLUME	444243.196	3760411.964	202.03
LOCATION L0041730	VOLUME	444248.196	3760411.920	202.02
LOCATION L0041731	VOLUME	444253.196	3760411.876	202.01
LOCATION L0041732	VOLUME	444258.196	3760411.832	202.01
LOCATION L0041733	VOLUME	444263.196	3760411.789	202.01
LOCATION L0041734	VOLUME	444268.195	3760411.745	202.01
LOCATION L0041735	VOLUME	444273.195	3760411.701	202.01
LOCATION L0041736	VOLUME	444278.195	3760411.657	202.01
LOCATION L0041737	VOLUME	444283.195	3760411.613	202.01
LOCATION L0041738	VOLUME	444288.195	3760411.569	202.01
LOCATION L0041739	VOLUME	444293.195	3760411.525	202.01
LOCATION L0041740	VOLUME	444298.194	3760411.482	202.01
LOCATION L0041741	VOLUME	444303.194	3760411.438	202.00
LOCATION L0041742	VOLUME	444308.194	3760411.394	202.00
LOCATION L0041743	VOLUME	444313.193	3760411.350	201.99
LOCATION L0041744	VOLUME	444318.193	3760411.306	201.99
LOCATION L0041745	VOLUME	444323.192	3760411.262	201.98
LOCATION L0041746	VOLUME	444328.192	3760411.218	201.97
LOCATION L0041747	VOLUME	444333.191	3760411.174	201.96
LOCATION L0041748	VOLUME	444338.191	3760410.966	201.96
LOCATION L0041749	VOLUME	444343.191	3760410.902	201.96
LOCATION L0041750	VOLUME	444348.190	3760410.837	201.97
LOCATION L0041751	VOLUME	444353.190	3760410.773	201.97
LOCATION L0041752	VOLUME	444358.189	3760410.709	201.98
LOCATION L0041753	VOLUME	444363.189	3760410.644	201.98
LOCATION L0041754	VOLUME	444368.189	3760410.580	201.97
LOCATION L0041755	VOLUME	444373.188	3760410.515	201.96
LOCATION L0041756	VOLUME	444378.188	3760410.451	201.95
LOCATION L0041757	VOLUME	444383.187	3760410.386	201.94
LOCATION L0041758	VOLUME	444388.187	3760410.322	201.93
LOCATION L0041759	VOLUME	444393.186	3760410.257	201.89
LOCATION L0041760	VOLUME	444398.186	3760410.193	201.85
LOCATION L0041761	VOLUME	444403.186	3760410.128	201.81

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LOCATION L0041762	VOLUME	444408.185	3760410.064	201.77
LOCATION L0041763	VOLUME	444413.185	3760409.999	201.73
LOCATION L0041764	VOLUME	444418.184	3760409.935	201.73
LOCATION L0041765	VOLUME	444423.184	3760409.871	201.72
LOCATION L0041766	VOLUME	444428.184	3760409.806	201.71
LOCATION L0041767	VOLUME	444433.183	3760409.742	201.70
LOCATION L0041768	VOLUME	444438.183	3760409.677	201.70
LOCATION L0041769	VOLUME	444443.182	3760409.613	201.71
LOCATION L0041770	VOLUME	444448.182	3760409.548	201.72
LOCATION L0041771	VOLUME	444453.181	3760409.484	201.73
LOCATION L0041772	VOLUME	444458.181	3760409.419	201.74
LOCATION L0041773	VOLUME	444463.181	3760409.355	201.74
LOCATION L0041774	VOLUME	444468.180	3760409.290	201.76
LOCATION L0041775	VOLUME	444473.180	3760409.225	201.78
LOCATION L0041776	VOLUME	444478.180	3760409.160	201.79
LOCATION L0041777	VOLUME	444483.180	3760409.095	201.81
LOCATION L0041778	VOLUME	444488.180	3760409.030	201.83
LOCATION L0041779	VOLUME	444493.180	3760409.065	201.84
LOCATION L0041780	VOLUME	444498.180	3760409.100	201.85
LOCATION L0041781	VOLUME	444503.180	3760409.135	201.86
LOCATION L0041782	VOLUME	444508.180	3760409.170	201.87
LOCATION L0041783	VOLUME	444513.180	3760409.205	201.87
LOCATION L0041784	VOLUME	444518.180	3760409.240	201.89
LOCATION L0041785	VOLUME	444523.180	3760409.275	201.92
LOCATION L0041786	VOLUME	444528.180	3760409.310	201.94
LOCATION L0041787	VOLUME	444533.180	3760409.345	201.96
LOCATION L0041788	VOLUME	444538.180	3760409.380	201.99
LOCATION L0041789	VOLUME	444543.180	3760409.415	202.01
LOCATION L0041790	VOLUME	444548.180	3760409.450	202.04
LOCATION L0041791	VOLUME	444553.180	3760409.485	202.07
LOCATION L0041792	VOLUME	444558.180	3760409.520	202.10
LOCATION L0041793	VOLUME	444563.179	3760409.555	202.12
LOCATION L0041794	VOLUME	444568.179	3760409.590	202.14
LOCATION L0041795	VOLUME	444573.179	3760409.625	202.12
LOCATION L0041796	VOLUME	444578.179	3760409.660	202.10
LOCATION L0041797	VOLUME	444583.179	3760409.695	202.08
LOCATION L0041798	VOLUME	444588.179	3760409.730	202.06
LOCATION L0041799	VOLUME	444593.179	3760409.765	201.95
LOCATION L0041800	VOLUME	444598.179	3760409.800	201.19
LOCATION L0041801	VOLUME	444603.179	3760409.835	200.42
LOCATION L0041802	VOLUME	444608.179	3760409.870	199.65
LOCATION L0041803	VOLUME	444613.179	3760409.905	198.89
LOCATION L0041804	VOLUME	444618.179	3760409.940	198.12
LOCATION L0041805	VOLUME	444623.179	3760409.975	198.02
LOCATION L0041806	VOLUME	444628.179	3760409.101	197.92
LOCATION L0041807	VOLUME	444633.179	3760409.127	197.83
LOCATION L0041808	VOLUME	444638.179	3760409.153	197.73
LOCATION L0041809	VOLUME	444643.178	3760409.179	197.63

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LOCATION L0041810	VOLUME	444648.176	3760409.697	198.34
LOCATION L0041811	VOLUME	444653.173	3760409.539	199.19
LOCATION L0041812	VOLUME	444658.171	3760409.381	200.04
LOCATION L0041813	VOLUME	444663.168	3760409.223	200.88
LOCATION L0041814	VOLUME	444668.166	3760409.065	201.73
LOCATION L0041815	VOLUME	444673.163	3760408.907	201.98
LOCATION L0041816	VOLUME	444678.161	3760408.749	202.01
LOCATION L0041817	VOLUME	444683.158	3760408.590	202.04
LOCATION L0041818	VOLUME	444688.156	3760408.432	202.07
LOCATION L0041819	VOLUME	444693.153	3760408.274	202.09
LOCATION L0041820	VOLUME	444698.151	3760408.116	202.08
LOCATION L0041821	VOLUME	444703.148	3760407.958	202.02
LOCATION L0041822	VOLUME	444708.146	3760407.800	201.97
LOCATION L0041823	VOLUME	444713.143	3760407.642	201.92
LOCATION L0041824	VOLUME	444718.141	3760407.484	201.87
LOCATION L0041825	VOLUME	444723.138	3760407.326	201.82
LOCATION L0041826	VOLUME	444728.136	3760407.167	201.78
LOCATION L0041827	VOLUME	444733.133	3760407.009	201.74
LOCATION L0041828	VOLUME	444738.131	3760406.851	201.69
LOCATION L0041829	VOLUME	444743.128	3760406.693	201.65
LOCATION L0041830	VOLUME	444748.126	3760406.535	201.59
LOCATION L0041831	VOLUME	444753.123	3760406.377	201.49
LOCATION L0041832	VOLUME	444758.121	3760406.219	201.39
LOCATION L0041833	VOLUME	444763.118	3760406.061	201.30
LOCATION L0041834	VOLUME	444768.116	3760405.903	201.20
LOCATION L0041835	VOLUME	444773.113	3760405.745	201.11
LOCATION L0041836	VOLUME	444778.111	3760405.586	201.04
LOCATION L0041837	VOLUME	444783.108	3760405.428	200.97
LOCATION L0041838	VOLUME	444788.106	3760405.270	200.90
LOCATION L0041839	VOLUME	444793.103	3760405.112	200.83
LOCATION L0041840	VOLUME	444798.101	3760404.954	200.77
LOCATION L0041841	VOLUME	444803.098	3760404.796	200.88
LOCATION L0041842	VOLUME	444808.096	3760404.638	200.98
LOCATION L0041843	VOLUME	444813.093	3760404.480	201.09
LOCATION L0041844	VOLUME	444818.091	3760404.322	201.19
LOCATION L0041845	VOLUME	444823.088	3760404.164	201.29
LOCATION L0041846	VOLUME	444828.086	3760404.005	201.28
LOCATION L0041847	VOLUME	444833.083	3760403.847	201.28
LOCATION L0041848	VOLUME	444838.081	3760403.689	201.27
LOCATION L0041849	VOLUME	444843.078	3760403.531	201.26
LOCATION L0041850	VOLUME	444848.076	3760403.394	201.25
LOCATION L0041851	VOLUME	444853.076	3760403.308	201.22
LOCATION L0041852	VOLUME	444858.075	3760403.222	201.19
LOCATION L0041853	VOLUME	444863.074	3760403.136	201.16
LOCATION L0041854	VOLUME	444868.073	3760403.051	201.13
LOCATION L0041855	VOLUME	444873.073	3760402.965	201.09
LOCATION L0041856	VOLUME	444878.072	3760402.879	201.09
LOCATION L0041857	VOLUME	444883.071	3760402.793	201.09

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LOCATION L0041858	VOLUME	444888.070	3760402.707	201.10
LOCATION L0041859	VOLUME	444893.070	3760402.621	201.11
LOCATION L0041860	VOLUME	444898.069	3760402.535	201.11
LOCATION L0041861	VOLUME	444903.068	3760402.449	201.13
LOCATION L0041862	VOLUME	444908.067	3760402.363	201.17
LOCATION L0041863	VOLUME	444913.067	3760402.277	201.20
LOCATION L0041864	VOLUME	444918.066	3760402.191	201.23
LOCATION L0041865	VOLUME	444923.065	3760402.105	201.26
LOCATION L0041866	VOLUME	444928.064	3760402.019	201.30
LOCATION L0041867	VOLUME	444933.064	3760401.933	201.35
LOCATION L0041868	VOLUME	444938.063	3760401.847	201.40
LOCATION L0041869	VOLUME	444943.062	3760401.761	201.45
LOCATION L0041870	VOLUME	444948.061	3760401.675	201.50
LOCATION L0041871	VOLUME	444953.061	3760401.589	201.54
LOCATION L0041872	VOLUME	444958.060	3760401.503	201.57
LOCATION L0041873	VOLUME	444963.059	3760401.418	201.59
LOCATION L0041874	VOLUME	444968.059	3760401.332	201.62
LOCATION L0041875	VOLUME	444973.058	3760401.246	201.64
LOCATION L0041876	VOLUME	444978.057	3760401.160	201.66
LOCATION L0041877	VOLUME	444983.056	3760401.074	201.66
LOCATION L0041878	VOLUME	444988.056	3760400.988	201.66
LOCATION L0041879	VOLUME	444993.055	3760400.902	201.66
LOCATION L0041880	VOLUME	444998.054	3760400.816	201.66
LOCATION L0041881	VOLUME	445003.053	3760400.730	201.66
LOCATION L0041882	VOLUME	445008.053	3760400.644	201.66
LOCATION L0041883	VOLUME	445013.052	3760400.558	201.66
LOCATION L0041884	VOLUME	445018.051	3760400.472	201.66
LOCATION L0041885	VOLUME	445023.050	3760400.386	201.66
LOCATION L0041886	VOLUME	445028.050	3760400.300	201.66
LOCATION L0041887	VOLUME	445033.049	3760400.214	201.67
LOCATION L0041888	VOLUME	445038.048	3760400.128	201.67
LOCATION L0041889	VOLUME	445043.047	3760400.042	201.67
LOCATION L0041890	VOLUME	445048.047	3760399.956	201.68
LOCATION L0041891	VOLUME	445053.046	3760399.870	201.68
LOCATION L0041892	VOLUME	445058.045	3760399.785	201.67
LOCATION L0041893	VOLUME	445063.044	3760399.699	201.66
LOCATION L0041894	VOLUME	445068.044	3760399.613	201.65
LOCATION L0041895	VOLUME	445073.043	3760399.527	201.64
LOCATION L0041896	VOLUME	445078.042	3760399.441	201.63
LOCATION L0041897	VOLUME	445083.042	3760399.355	201.62
LOCATION L0041898	VOLUME	445088.041	3760399.269	201.60
LOCATION L0041899	VOLUME	445093.040	3760399.183	201.59
LOCATION L0041900	VOLUME	445098.039	3760399.097	201.57
LOCATION L0041901	VOLUME	445103.039	3760399.011	201.55
LOCATION L0041902	VOLUME	445108.038	3760398.925	201.57
LOCATION L0041903	VOLUME	445113.037	3760398.839	201.61
LOCATION L0041904	VOLUME	445118.036	3760398.753	201.66
LOCATION L0041905	VOLUME	445123.036	3760398.667	201.71



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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0041906	445128.035	3760398.581	201.75	
L0041907	445133.034	3760398.495	201.78	
L0041908	445138.033	3760398.409	201.76	
L0041909	445143.033	3760398.323	201.75	
L0041910	445148.032	3760398.237	201.73	
L0041911	445153.029	3760398.316	201.72	
L0041912	445158.026	3760398.511	201.70	
L0041913	445163.022	3760398.707	201.64	
L0041914	445168.018	3760398.902	201.58	
L0041915	445173.014	3760399.097	201.52	
L0041916	445178.010	3760399.293	201.45	
L0041917	445183.006	3760399.488	201.39	
L0041918	445188.003	3760399.684	201.37	
L0041919	445192.999	3760399.879	201.35	

\*\* End of LINE VOLUME Source ID = SLINE5

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE13

\*\* DESCRSRC Merilll Ave - Campus Ave to PA 4 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.38E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440777.137, 3760467.056, 196.68, 3.66, 2.33

\*\* 440991.318, 3760465.615, 197.60, 3.66, 2.33

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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0041920	440779.637	3760467.039	196.64	
L0041921	440784.637	3760467.005	196.66	
L0041922	440789.637	3760466.972	196.69	
L0041923	440794.637	3760466.938	196.71	
L0041924	440799.637	3760466.904	196.70	
L0041925	440804.637	3760466.871	196.68	
L0041926	440809.637	3760466.837	196.67	
L0041927	440814.637	3760466.803	196.65	
L0041928	440819.636	3760466.770	196.64	
L0041929	440824.636	3760466.736	196.65	
L0041930	440829.636	3760466.703	196.68	
L0041931	440834.636	3760466.669	196.71	
L0041932	440839.636	3760466.635	196.74	
L0041933	440844.636	3760466.602	196.77	
L0041934	440849.636	3760466.568	196.81	
L0041935	440854.636	3760466.534	196.84	
L0041936	440859.635	3760466.501	196.88	
L0041937	440864.635	3760466.467	196.92	
L0041938	440869.635	3760466.433	196.96	

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0041939	440874.635	3760466.400	197.00		
L0041940	440879.635	3760466.366	197.05		
L0041941	440884.635	3760466.333	197.10		
L0041942	440889.635	3760466.299	197.15		
L0041943	440894.635	3760466.265	197.20		
L0041944	440899.635	3760466.232	197.25		
L0041945	440904.634	3760466.198	197.30		
L0041946	440909.634	3760466.164	197.35		
L0041947	440914.634	3760466.131	197.39		
L0041948	440919.634	3760466.097	197.44		
L0041949	440924.634	3760466.063	197.48		
L0041950	440929.634	3760466.030	197.50		
L0041951	440934.634	3760465.996	197.52		
L0041952	440939.634	3760465.963	197.54		
L0041953	440944.634	3760465.929	197.55		
L0041954	440949.633	3760465.895	197.57		
L0041955	440954.633	3760465.862	197.58		
L0041956	440959.633	3760465.828	197.59		
L0041957	440964.633	3760465.794	197.60		
L0041958	440969.633	3760465.761	197.61		
L0041959	440974.633	3760465.727	197.61		
L0041960	440979.633	3760465.693	197.64		
L0041961	440984.633	3760465.660	197.67		
L0041962	440989.633	3760465.626	197.69		

\*\* End of LINE VOLUME Source ID = SLINE13

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE14

\*\* DESCRSRC Merrill Ave - PA 4 Driveway to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.86E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440992.011, 3760465.511, 197.60, 3.66, 2.33

\*\* 441189.978, 3760466.341, 198.57, 3.66, 2.33

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L0041963	440994.511	3760465.522	197.72		
L0041964	440999.511	3760465.543	197.74		
L0041965	441004.511	3760465.564	197.77		
L0041966	441009.511	3760465.585	197.80		
L0041967	441014.511	3760465.606	197.83		
L0041968	441019.511	3760465.627	197.86		
L0041969	441024.511	3760465.647	197.89		
L0041970	441029.511	3760465.668	197.91		
L0041971	441034.511	3760465.689	197.94		

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LOCATION	VOLUME	441039.511	3760465.710	197.97
LOCATION L0041972	VOLUME	441039.511	3760465.710	197.97
LOCATION L0041973	VOLUME	441044.511	3760465.731	198.00
LOCATION L0041974	VOLUME	441049.511	3760465.752	198.03
LOCATION L0041975	VOLUME	441054.511	3760465.773	198.07
LOCATION L0041976	VOLUME	441059.511	3760465.794	198.10
LOCATION L0041977	VOLUME	441064.511	3760465.815	198.14
LOCATION L0041978	VOLUME	441069.511	3760465.836	198.18
LOCATION L0041979	VOLUME	441074.511	3760465.857	198.22
LOCATION L0041980	VOLUME	441079.511	3760465.878	198.26
LOCATION L0041981	VOLUME	441084.511	3760465.899	198.29
LOCATION L0041982	VOLUME	441089.511	3760465.920	198.33
LOCATION L0041983	VOLUME	441094.510	3760465.941	198.37
LOCATION L0041984	VOLUME	441099.510	3760465.962	198.40
LOCATION L0041985	VOLUME	441104.510	3760465.983	198.43
LOCATION L0041986	VOLUME	441109.510	3760466.004	198.45
LOCATION L0041987	VOLUME	441114.510	3760466.025	198.46
LOCATION L0041988	VOLUME	441119.510	3760466.046	198.48
LOCATION L0041989	VOLUME	441124.510	3760466.067	198.49
LOCATION L0041990	VOLUME	441129.510	3760466.087	198.50
LOCATION L0041991	VOLUME	441134.510	3760466.108	198.51
LOCATION L0041992	VOLUME	441139.510	3760466.129	198.52
LOCATION L0041993	VOLUME	441144.510	3760466.150	198.53
LOCATION L0041994	VOLUME	441149.510	3760466.171	198.54
LOCATION L0041995	VOLUME	441154.510	3760466.192	198.55
LOCATION L0041996	VOLUME	441159.510	3760466.213	198.55
LOCATION L0041997	VOLUME	441164.510	3760466.234	198.55
LOCATION L0041998	VOLUME	441169.510	3760466.255	198.54
LOCATION L0041999	VOLUME	441174.510	3760466.276	198.54
LOCATION L0042000	VOLUME	441179.510	3760466.297	198.54
LOCATION L0042001	VOLUME	441184.510	3760466.318	198.63
LOCATION L0042002	VOLUME	441189.510	3760466.339	198.72

\*\* End of LINE VOLUME Source ID = SLINE14

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE15

\*\* DESCRSRC Merrill Ave - Bon View Ave to Driveway 7

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.22E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441189.566, 3760466.219, 198.57, 3.66, 2.33

\*\* 441226.937, 3760466.415, 198.66, 3.66, 2.33

\*\* 441552.028, 3760466.314, 199.95, 3.66, 2.33

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LOCATION L0042003	VOLUME	441192.066	3760466.232	198.77
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LOCATION L0042004	VOLUME	441197.066	3760466.259	198.87
LOCATION L0042005	VOLUME	441202.066	3760466.285	198.96
LOCATION L0042006	VOLUME	441207.066	3760466.311	199.02
LOCATION L0042007	VOLUME	441212.066	3760466.337	198.94
LOCATION L0042008	VOLUME	441217.065	3760466.364	198.86
LOCATION L0042009	VOLUME	441222.065	3760466.390	198.78
LOCATION L0042010	VOLUME	441227.065	3760466.415	198.70
LOCATION L0042011	VOLUME	441232.065	3760466.414	198.63
LOCATION L0042012	VOLUME	441237.065	3760466.412	198.63
LOCATION L0042013	VOLUME	441242.065	3760466.411	198.63
LOCATION L0042014	VOLUME	441247.065	3760466.409	198.64
LOCATION L0042015	VOLUME	441252.065	3760466.408	198.64
LOCATION L0042016	VOLUME	441257.065	3760466.406	198.64
LOCATION L0042017	VOLUME	441262.065	3760466.404	198.65
LOCATION L0042018	VOLUME	441267.065	3760466.403	198.66
LOCATION L0042019	VOLUME	441272.065	3760466.401	198.67
LOCATION L0042020	VOLUME	441277.065	3760466.400	198.68
LOCATION L0042021	VOLUME	441282.065	3760466.398	198.69
LOCATION L0042022	VOLUME	441287.065	3760466.397	198.71
LOCATION L0042023	VOLUME	441292.065	3760466.395	198.73
LOCATION L0042024	VOLUME	441297.065	3760466.394	198.75
LOCATION L0042025	VOLUME	441302.065	3760466.392	198.77
LOCATION L0042026	VOLUME	441307.065	3760466.390	198.79
LOCATION L0042027	VOLUME	441312.065	3760466.389	198.81
LOCATION L0042028	VOLUME	441317.065	3760466.387	198.84
LOCATION L0042029	VOLUME	441322.065	3760466.386	198.86
LOCATION L0042030	VOLUME	441327.065	3760466.384	198.88
LOCATION L0042031	VOLUME	441332.065	3760466.383	198.90
LOCATION L0042032	VOLUME	441337.065	3760466.381	198.92
LOCATION L0042033	VOLUME	441342.065	3760466.380	198.94
LOCATION L0042034	VOLUME	441347.065	3760466.378	198.96
LOCATION L0042035	VOLUME	441352.065	3760466.376	198.98
LOCATION L0042036	VOLUME	441357.065	3760466.375	198.99
LOCATION L0042037	VOLUME	441362.065	3760466.373	199.02
LOCATION L0042038	VOLUME	441367.065	3760466.372	199.05
LOCATION L0042039	VOLUME	441372.065	3760466.370	199.08
LOCATION L0042040	VOLUME	441377.065	3760466.369	199.11
LOCATION L0042041	VOLUME	441382.065	3760466.367	199.14
LOCATION L0042042	VOLUME	441387.065	3760466.366	199.17
LOCATION L0042043	VOLUME	441392.065	3760466.364	199.19
LOCATION L0042044	VOLUME	441397.065	3760466.362	199.21
LOCATION L0042045	VOLUME	441402.065	3760466.361	199.23
LOCATION L0042046	VOLUME	441407.065	3760466.359	199.25
LOCATION L0042047	VOLUME	441412.065	3760466.358	199.27
LOCATION L0042048	VOLUME	441417.065	3760466.356	199.28
LOCATION L0042049	VOLUME	441422.065	3760466.355	199.29
LOCATION L0042050	VOLUME	441427.065	3760466.353	199.30
LOCATION L0042051	VOLUME	441432.065	3760466.352	199.31

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042052	441437.065	3760466.350	199.32		
L0042053	441442.065	3760466.348	199.32		
L0042054	441447.065	3760466.347	199.32		
L0042055	441452.065	3760466.345	199.33		
L0042056	441457.065	3760466.344	199.33		
L0042057	441462.065	3760466.342	199.33		
L0042058	441467.065	3760466.341	199.39		
L0042059	441472.065	3760466.339	199.45		
L0042060	441477.065	3760466.338	199.51		
L0042061	441482.065	3760466.336	199.58		
L0042062	441487.065	3760466.335	199.64		
L0042063	441492.065	3760466.333	199.67		
L0042064	441497.065	3760466.331	199.70		
L0042065	441502.065	3760466.330	199.72		
L0042066	441507.065	3760466.328	199.75		
L0042067	441512.065	3760466.327	199.77		
L0042068	441517.065	3760466.325	199.79		
L0042069	441522.065	3760466.324	199.81		
L0042070	441527.065	3760466.322	199.83		
L0042071	441532.065	3760466.321	199.85		
L0042072	441537.065	3760466.319	199.87		
L0042073	441542.065	3760466.317	199.88		
L0042074	441547.065	3760466.316	199.90		

\*\* End of LINE VOLUME Source ID = SLINE15

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE16

\*\* DESCRSRC Merrill Ave - Driveway 7 to PA 5 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.39E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441549.056, 3760466.358, 199.93, 3.66, 2.33

\*\* 441746.603, 3760467.302, 200.08, 3.66, 2.33

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042075	441551.556	3760466.370	199.91		
L0042076	441556.556	3760466.394	199.92		
L0042077	441561.556	3760466.418	199.93		
L0042078	441566.556	3760466.442	199.94		
L0042079	441571.556	3760466.466	199.95		
L0042080	441576.556	3760466.490	199.95		
L0042081	441581.556	3760466.514	199.96		
L0042082	441586.556	3760466.538	199.96		
L0042083	441591.556	3760466.561	199.97		
L0042084	441596.556	3760466.585	199.98		

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LOCATION	VOLUME				
L0042085	441601.556	3760466.609	200.00		
L0042086	441606.556	3760466.633	200.02		
L0042087	441611.556	3760466.657	200.04		
L0042088	441616.556	3760466.681	200.06		
L0042089	441621.556	3760466.705	200.07		
L0042090	441626.556	3760466.729	200.09		
L0042091	441631.556	3760466.753	200.11		
L0042092	441636.555	3760466.776	200.13		
L0042093	441641.555	3760466.800	200.15		
L0042094	441646.555	3760466.824	200.15		
L0042095	441651.555	3760466.848	200.14		
L0042096	441656.555	3760466.872	200.14		
L0042097	441661.555	3760466.896	200.13		
L0042098	441666.555	3760466.920	200.13		
L0042099	441671.555	3760466.944	200.13		
L0042100	441676.555	3760466.968	200.13		
L0042101	441681.555	3760466.991	200.13		
L0042102	441686.555	3760467.015	200.13		
L0042103	441691.555	3760467.039	200.13		
L0042104	441696.555	3760467.063	200.12		
L0042105	441701.555	3760467.087	200.12		
L0042106	441706.555	3760467.111	200.11		
L0042107	441711.555	3760467.135	200.10		
L0042108	441716.555	3760467.159	200.10		
L0042109	441721.555	3760467.183	200.09		
L0042110	441726.554	3760467.207	200.08		
L0042111	441731.554	3760467.230	200.07		
L0042112	441736.554	3760467.254	200.06		
L0042113	441741.554	3760467.278	200.05		
L0042114	441746.554	3760467.302	200.04		

\*\* End of LINE VOLUME Source ID = SLINE16

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE17

\*\* DESCRSRC Merrill Ave - PA 5 Driveway to Grove Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.16E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441747.949, 3760467.599, 200.08, 3.66, 2.33

\*\* 441996.174, 3760466.514, 199.90, 3.66, 2.33

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LOCATION L0042115	VOLUME	441750.449	3760467.588	200.04	
LOCATION L0042116	VOLUME	441755.449	3760467.566	200.04	
LOCATION L0042117	VOLUME	441760.449	3760467.544	200.04	

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LOCATION L0042118	VOLUME	441765.449	3760467.522	200.04
LOCATION L0042119	VOLUME	441770.449	3760467.500	200.04
LOCATION L0042120	VOLUME	441775.449	3760467.479	200.05
LOCATION L0042121	VOLUME	441780.448	3760467.457	200.05
LOCATION L0042122	VOLUME	441785.448	3760467.435	200.06
LOCATION L0042123	VOLUME	441790.448	3760467.413	200.06
LOCATION L0042124	VOLUME	441795.448	3760467.391	200.06
LOCATION L0042125	VOLUME	441800.448	3760467.369	200.06
LOCATION L0042126	VOLUME	441805.448	3760467.347	200.06
LOCATION L0042127	VOLUME	441810.448	3760467.326	200.06
LOCATION L0042128	VOLUME	441815.448	3760467.304	200.07
LOCATION L0042129	VOLUME	441820.448	3760467.282	200.07
LOCATION L0042130	VOLUME	441825.448	3760467.260	200.07
LOCATION L0042131	VOLUME	441830.448	3760467.238	200.07
LOCATION L0042132	VOLUME	441835.448	3760467.216	200.07
LOCATION L0042133	VOLUME	441840.448	3760467.195	200.07
LOCATION L0042134	VOLUME	441845.448	3760467.173	200.07
LOCATION L0042135	VOLUME	441850.448	3760467.151	200.07
LOCATION L0042136	VOLUME	441855.448	3760467.129	200.08
LOCATION L0042137	VOLUME	441860.448	3760467.107	200.08
LOCATION L0042138	VOLUME	441865.448	3760467.085	200.09
LOCATION L0042139	VOLUME	441870.448	3760467.063	200.10
LOCATION L0042140	VOLUME	441875.448	3760467.042	200.10
LOCATION L0042141	VOLUME	441880.448	3760467.020	200.11
LOCATION L0042142	VOLUME	441885.447	3760466.998	200.11
LOCATION L0042143	VOLUME	441890.447	3760466.976	200.12
LOCATION L0042144	VOLUME	441895.447	3760466.954	200.13
LOCATION L0042145	VOLUME	441900.447	3760466.932	200.14
LOCATION L0042146	VOLUME	441905.447	3760466.911	200.15
LOCATION L0042147	VOLUME	441910.447	3760466.889	200.16
LOCATION L0042148	VOLUME	441915.447	3760466.867	200.17
LOCATION L0042149	VOLUME	441920.447	3760466.845	200.18
LOCATION L0042150	VOLUME	441925.447	3760466.823	200.19
LOCATION L0042151	VOLUME	441930.447	3760466.801	200.20
LOCATION L0042152	VOLUME	441935.447	3760466.780	200.21
LOCATION L0042153	VOLUME	441940.447	3760466.758	200.22
LOCATION L0042154	VOLUME	441945.447	3760466.736	200.23
LOCATION L0042155	VOLUME	441950.447	3760466.714	200.23
LOCATION L0042156	VOLUME	441955.447	3760466.692	200.20
LOCATION L0042157	VOLUME	441960.447	3760466.670	200.16
LOCATION L0042158	VOLUME	441965.447	3760466.648	200.12
LOCATION L0042159	VOLUME	441970.447	3760466.627	200.08
LOCATION L0042160	VOLUME	441975.447	3760466.605	200.04
LOCATION L0042161	VOLUME	441980.447	3760466.583	200.00
LOCATION L0042162	VOLUME	441985.447	3760466.561	199.96
LOCATION L0042163	VOLUME	441990.446	3760466.539	199.92
LOCATION L0042164	VOLUME	441995.446	3760466.517	199.88

\*\* End of LINE VOLUME Source ID = SLINE17

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** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Bon View Ave - Merrill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.788, 3760470.335, 198.63, 3.66, 2.33
** 441189.788, 3760529.541, 199.52, 3.66, 2.33
** 441190.787, 3760873.923, 201.31, 3.66, 2.33
** -----

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LOCATION	L0042165	VOLUME	441189.788	3760472.835	198.87
LOCATION	L0042166	VOLUME	441189.788	3760477.835	198.94
LOCATION	L0042167	VOLUME	441189.788	3760482.835	198.98
LOCATION	L0042168	VOLUME	441189.788	3760487.835	199.03
LOCATION	L0042169	VOLUME	441189.788	3760492.835	199.07
LOCATION	L0042170	VOLUME	441189.788	3760497.835	199.11
LOCATION	L0042171	VOLUME	441189.788	3760502.835	199.16
LOCATION	L0042172	VOLUME	441189.788	3760507.835	199.21
LOCATION	L0042173	VOLUME	441189.788	3760512.835	199.28
LOCATION	L0042174	VOLUME	441189.788	3760517.835	199.35
LOCATION	L0042175	VOLUME	441189.788	3760522.835	199.42
LOCATION	L0042176	VOLUME	441189.788	3760527.835	199.49
LOCATION	L0042177	VOLUME	441189.797	3760532.835	199.56
LOCATION	L0042178	VOLUME	441189.812	3760537.835	199.63
LOCATION	L0042179	VOLUME	441189.826	3760542.835	199.66
LOCATION	L0042180	VOLUME	441189.841	3760547.835	199.69
LOCATION	L0042181	VOLUME	441189.855	3760552.835	199.73
LOCATION	L0042182	VOLUME	441189.870	3760557.835	199.76
LOCATION	L0042183	VOLUME	441189.884	3760562.835	199.79
LOCATION	L0042184	VOLUME	441189.899	3760567.835	199.83
LOCATION	L0042185	VOLUME	441189.913	3760572.835	199.86
LOCATION	L0042186	VOLUME	441189.928	3760577.835	199.90
LOCATION	L0042187	VOLUME	441189.943	3760582.835	199.94
LOCATION	L0042188	VOLUME	441189.957	3760587.835	199.97
LOCATION	L0042189	VOLUME	441189.972	3760592.835	200.01
LOCATION	L0042190	VOLUME	441189.986	3760597.835	200.05
LOCATION	L0042191	VOLUME	441190.001	3760602.835	200.08
LOCATION	L0042192	VOLUME	441190.015	3760607.835	200.12
LOCATION	L0042193	VOLUME	441190.030	3760612.835	200.15
LOCATION	L0042194	VOLUME	441190.044	3760617.835	200.19
LOCATION	L0042195	VOLUME	441190.059	3760622.835	200.22
LOCATION	L0042196	VOLUME	441190.073	3760627.835	200.26
LOCATION	L0042197	VOLUME	441190.088	3760632.835	200.29



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LOCATION L0042198	VOLUME	441190.102	3760637.835	200.32
LOCATION L0042199	VOLUME	441190.117	3760642.835	200.35
LOCATION L0042200	VOLUME	441190.131	3760647.835	200.37
LOCATION L0042201	VOLUME	441190.146	3760652.835	200.40
LOCATION L0042202	VOLUME	441190.160	3760657.835	200.43
LOCATION L0042203	VOLUME	441190.175	3760662.835	200.46
LOCATION L0042204	VOLUME	441190.189	3760667.835	200.48
LOCATION L0042205	VOLUME	441190.204	3760672.834	200.51
LOCATION L0042206	VOLUME	441190.218	3760677.834	200.54
LOCATION L0042207	VOLUME	441190.233	3760682.834	200.56
LOCATION L0042208	VOLUME	441190.247	3760687.834	200.59
LOCATION L0042209	VOLUME	441190.262	3760692.834	200.62
LOCATION L0042210	VOLUME	441190.276	3760697.834	200.65
LOCATION L0042211	VOLUME	441190.291	3760702.834	200.68
LOCATION L0042212	VOLUME	441190.305	3760707.834	200.70
LOCATION L0042213	VOLUME	441190.320	3760712.834	200.73
LOCATION L0042214	VOLUME	441190.334	3760717.834	200.76
LOCATION L0042215	VOLUME	441190.349	3760722.834	200.79
LOCATION L0042216	VOLUME	441190.363	3760727.834	200.81
LOCATION L0042217	VOLUME	441190.378	3760732.834	200.83
LOCATION L0042218	VOLUME	441190.392	3760737.834	200.86
LOCATION L0042219	VOLUME	441190.407	3760742.834	200.88
LOCATION L0042220	VOLUME	441190.421	3760747.834	200.90
LOCATION L0042221	VOLUME	441190.436	3760752.834	200.93
LOCATION L0042222	VOLUME	441190.450	3760757.834	200.95
LOCATION L0042223	VOLUME	441190.465	3760762.834	200.98
LOCATION L0042224	VOLUME	441190.479	3760767.834	201.00
LOCATION L0042225	VOLUME	441190.494	3760772.834	201.03
LOCATION L0042226	VOLUME	441190.508	3760777.834	201.06
LOCATION L0042227	VOLUME	441190.523	3760782.834	201.08
LOCATION L0042228	VOLUME	441190.537	3760787.834	201.10
LOCATION L0042229	VOLUME	441190.552	3760792.834	201.12
LOCATION L0042230	VOLUME	441190.566	3760797.834	201.14
LOCATION L0042231	VOLUME	441190.581	3760802.834	201.16
LOCATION L0042232	VOLUME	441190.595	3760807.834	201.17
LOCATION L0042233	VOLUME	441190.610	3760812.834	201.19
LOCATION L0042234	VOLUME	441190.624	3760817.834	201.21
LOCATION L0042235	VOLUME	441190.639	3760822.834	201.23
LOCATION L0042236	VOLUME	441190.653	3760827.834	201.25
LOCATION L0042237	VOLUME	441190.668	3760832.834	201.27
LOCATION L0042238	VOLUME	441190.682	3760837.834	201.29
LOCATION L0042239	VOLUME	441190.697	3760842.834	201.32
LOCATION L0042240	VOLUME	441190.711	3760847.834	201.34
LOCATION L0042241	VOLUME	441190.726	3760852.834	201.35
LOCATION L0042242	VOLUME	441190.740	3760857.834	201.37
LOCATION L0042243	VOLUME	441190.755	3760862.834	201.39
LOCATION L0042244	VOLUME	441190.769	3760867.834	201.41
LOCATION L0042245	VOLUME	441190.784	3760872.834	201.43

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\*\* End of LINE VOLUME Source ID = SLINE18  
\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE19  
\*\* DESCRSRC Bon View Ave - PA 4 Driveway to Driveway 1  
\*\* PREFIX  
\*\* Length of Side = 5.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 4.68E-06  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441190.698, 3760873.430, 201.31, 3.66, 2.33  
\*\* 441189.126, 3761142.593, 202.97, 3.66, 2.33  
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LOCATION	L0042246	VOLUME	441190.683	3760875.930	201.44
LOCATION	L0042247	VOLUME	441190.654	3760880.930	201.47
LOCATION	L0042248	VOLUME	441190.625	3760885.930	201.50
LOCATION	L0042249	VOLUME	441190.596	3760890.930	201.53
LOCATION	L0042250	VOLUME	441190.567	3760895.930	201.56
LOCATION	L0042251	VOLUME	441190.537	3760900.930	201.59
LOCATION	L0042252	VOLUME	441190.508	3760905.930	201.62
LOCATION	L0042253	VOLUME	441190.479	3760910.930	201.66
LOCATION	L0042254	VOLUME	441190.450	3760915.930	201.69
LOCATION	L0042255	VOLUME	441190.421	3760920.930	201.73
LOCATION	L0042256	VOLUME	441190.391	3760925.929	201.76
LOCATION	L0042257	VOLUME	441190.362	3760930.929	201.80
LOCATION	L0042258	VOLUME	441190.333	3760935.929	201.83
LOCATION	L0042259	VOLUME	441190.304	3760940.929	201.86
LOCATION	L0042260	VOLUME	441190.274	3760945.929	201.89
LOCATION	L0042261	VOLUME	441190.245	3760950.929	201.93
LOCATION	L0042262	VOLUME	441190.216	3760955.929	201.96
LOCATION	L0042263	VOLUME	441190.187	3760960.929	201.99
LOCATION	L0042264	VOLUME	441190.158	3760965.929	202.02
LOCATION	L0042265	VOLUME	441190.128	3760970.929	202.05
LOCATION	L0042266	VOLUME	441190.099	3760975.929	202.08
LOCATION	L0042267	VOLUME	441190.070	3760980.929	202.11
LOCATION	L0042268	VOLUME	441190.041	3760985.928	202.14
LOCATION	L0042269	VOLUME	441190.012	3760990.928	202.17
LOCATION	L0042270	VOLUME	441189.982	3760995.928	202.20
LOCATION	L0042271	VOLUME	441189.953	3761000.928	202.23
LOCATION	L0042272	VOLUME	441189.924	3761005.928	202.27
LOCATION	L0042273	VOLUME	441189.895	3761010.928	202.30
LOCATION	L0042274	VOLUME	441189.866	3761015.928	202.34
LOCATION	L0042275	VOLUME	441189.836	3761020.928	202.38
LOCATION	L0042276	VOLUME	441189.807	3761025.928	202.42
LOCATION	L0042277	VOLUME	441189.778	3761030.928	202.45
LOCATION	L0042278	VOLUME	441189.749	3761035.928	202.49

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LOCATION L0042279	VOLUME	441189.720	3761040.928	202.52
LOCATION L0042280	VOLUME	441189.690	3761045.927	202.55
LOCATION L0042281	VOLUME	441189.661	3761050.927	202.59
LOCATION L0042282	VOLUME	441189.632	3761055.927	202.62
LOCATION L0042283	VOLUME	441189.603	3761060.927	202.65
LOCATION L0042284	VOLUME	441189.574	3761065.927	202.67
LOCATION L0042285	VOLUME	441189.544	3761070.927	202.69
LOCATION L0042286	VOLUME	441189.515	3761075.927	202.71
LOCATION L0042287	VOLUME	441189.486	3761080.927	202.74
LOCATION L0042288	VOLUME	441189.457	3761085.927	202.76
LOCATION L0042289	VOLUME	441189.428	3761090.927	202.78
LOCATION L0042290	VOLUME	441189.398	3761095.927	202.80
LOCATION L0042291	VOLUME	441189.369	3761100.926	202.83
LOCATION L0042292	VOLUME	441189.340	3761105.926	202.85
LOCATION L0042293	VOLUME	441189.311	3761110.926	202.88
LOCATION L0042294	VOLUME	441189.281	3761115.926	202.90
LOCATION L0042295	VOLUME	441189.252	3761120.926	202.93
LOCATION L0042296	VOLUME	441189.223	3761125.926	202.95
LOCATION L0042297	VOLUME	441189.194	3761130.926	202.98
LOCATION L0042298	VOLUME	441189.165	3761135.926	203.00
LOCATION L0042299	VOLUME	441189.135	3761140.926	203.03

\*\* End of LINE VOLUME Source ID = SLINE19

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE20

\*\* DESCRSRC Bon View Ave - Driveway 1 to Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.41E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441189.027, 3761141.906, 202.97, 3.66, 2.33

\*\* 441189.231, 3761269.136, 204.07, 3.66, 2.33

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LOCATION L0042300	VOLUME	441189.031	3761144.406	203.05
LOCATION L0042301	VOLUME	441189.039	3761149.406	203.07
LOCATION L0042302	VOLUME	441189.047	3761154.406	203.10
LOCATION L0042303	VOLUME	441189.055	3761159.406	203.13
LOCATION L0042304	VOLUME	441189.063	3761164.406	203.16
LOCATION L0042305	VOLUME	441189.071	3761169.406	203.19
LOCATION L0042306	VOLUME	441189.079	3761174.406	203.22
LOCATION L0042307	VOLUME	441189.087	3761179.406	203.25
LOCATION L0042308	VOLUME	441189.095	3761184.406	203.29
LOCATION L0042309	VOLUME	441189.103	3761189.406	203.32
LOCATION L0042310	VOLUME	441189.111	3761194.406	203.35
LOCATION L0042311	VOLUME	441189.119	3761199.406	203.38

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LOCATION L0042312	VOLUME	441189.127	3761204.406	203.42
LOCATION L0042313	VOLUME	441189.135	3761209.406	203.45
LOCATION L0042314	VOLUME	441189.143	3761214.406	203.48
LOCATION L0042315	VOLUME	441189.151	3761219.406	203.53
LOCATION L0042316	VOLUME	441189.159	3761224.406	203.57
LOCATION L0042317	VOLUME	441189.167	3761229.406	203.62
LOCATION L0042318	VOLUME	441189.175	3761234.406	203.66
LOCATION L0042319	VOLUME	441189.183	3761239.406	203.71
LOCATION L0042320	VOLUME	441189.192	3761244.406	203.75
LOCATION L0042321	VOLUME	441189.200	3761249.406	203.81
LOCATION L0042322	VOLUME	441189.208	3761254.406	203.87
LOCATION L0042323	VOLUME	441189.216	3761259.406	203.93
LOCATION L0042324	VOLUME	441189.224	3761264.406	204.00

\*\* End of LINE VOLUME Source ID = SLINE20

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE21

\*\* DESCRSRC Grove Ave - Merrill Ave to Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.23E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441995.174, 3760469.550, 199.90, 3.66, 2.33

\*\* 441994.804, 3760521.346, 200.41, 3.66, 2.33

\*\* 441995.215, 3760854.109, 202.59, 3.66, 2.33

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LOCATION L0042325	VOLUME	441995.156	3760472.050	199.95
LOCATION L0042326	VOLUME	441995.120	3760477.050	200.01
LOCATION L0042327	VOLUME	441995.085	3760482.050	200.07
LOCATION L0042328	VOLUME	441995.049	3760487.050	200.13
LOCATION L0042329	VOLUME	441995.013	3760492.050	200.19
LOCATION L0042330	VOLUME	441994.978	3760497.049	200.25
LOCATION L0042331	VOLUME	441994.942	3760502.049	200.31
LOCATION L0042332	VOLUME	441994.906	3760507.049	200.34
LOCATION L0042333	VOLUME	441994.870	3760512.049	200.37
LOCATION L0042334	VOLUME	441994.835	3760517.049	200.40
LOCATION L0042335	VOLUME	441994.805	3760522.049	200.43
LOCATION L0042336	VOLUME	441994.811	3760527.049	200.47
LOCATION L0042337	VOLUME	441994.817	3760532.049	200.50
LOCATION L0042338	VOLUME	441994.823	3760537.049	200.52
LOCATION L0042339	VOLUME	441994.830	3760542.049	200.55
LOCATION L0042340	VOLUME	441994.836	3760547.049	200.58
LOCATION L0042341	VOLUME	441994.842	3760552.049	200.60
LOCATION L0042342	VOLUME	441994.848	3760557.049	200.63
LOCATION L0042343	VOLUME	441994.854	3760562.049	200.65

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LOCATION L0042344	VOLUME	441994.860	3760567.049	200.68
LOCATION L0042345	VOLUME	441994.867	3760572.049	200.70
LOCATION L0042346	VOLUME	441994.873	3760577.049	200.72
LOCATION L0042347	VOLUME	441994.879	3760582.049	200.75
LOCATION L0042348	VOLUME	441994.885	3760587.049	200.77
LOCATION L0042349	VOLUME	441994.891	3760592.049	200.79
LOCATION L0042350	VOLUME	441994.898	3760597.049	200.82
LOCATION L0042351	VOLUME	441994.904	3760602.049	200.85
LOCATION L0042352	VOLUME	441994.910	3760607.049	200.88
LOCATION L0042353	VOLUME	441994.916	3760612.049	200.91
LOCATION L0042354	VOLUME	441994.922	3760617.049	200.95
LOCATION L0042355	VOLUME	441994.928	3760622.049	200.98
LOCATION L0042356	VOLUME	441994.935	3760627.049	201.01
LOCATION L0042357	VOLUME	441994.941	3760632.049	201.04
LOCATION L0042358	VOLUME	441994.947	3760637.049	201.08
LOCATION L0042359	VOLUME	441994.953	3760642.049	201.11
LOCATION L0042360	VOLUME	441994.959	3760647.049	201.15
LOCATION L0042361	VOLUME	441994.965	3760652.049	201.18
LOCATION L0042362	VOLUME	441994.972	3760657.049	201.21
LOCATION L0042363	VOLUME	441994.978	3760662.049	201.25
LOCATION L0042364	VOLUME	441994.984	3760667.049	201.28
LOCATION L0042365	VOLUME	441994.990	3760672.049	201.32
LOCATION L0042366	VOLUME	441994.996	3760677.049	201.35
LOCATION L0042367	VOLUME	441995.002	3760682.049	201.38
LOCATION L0042368	VOLUME	441995.009	3760687.049	201.42
LOCATION L0042369	VOLUME	441995.015	3760692.049	201.46
LOCATION L0042370	VOLUME	441995.021	3760697.049	201.49
LOCATION L0042371	VOLUME	441995.027	3760702.049	201.53
LOCATION L0042372	VOLUME	441995.033	3760707.049	201.57
LOCATION L0042373	VOLUME	441995.039	3760712.049	201.61
LOCATION L0042374	VOLUME	441995.046	3760717.049	201.64
LOCATION L0042375	VOLUME	441995.052	3760722.049	201.68
LOCATION L0042376	VOLUME	441995.058	3760727.049	201.71
LOCATION L0042377	VOLUME	441995.064	3760732.049	201.75
LOCATION L0042378	VOLUME	441995.070	3760737.049	201.78
LOCATION L0042379	VOLUME	441995.077	3760742.049	201.82
LOCATION L0042380	VOLUME	441995.083	3760747.049	201.85
LOCATION L0042381	VOLUME	441995.089	3760752.049	201.89
LOCATION L0042382	VOLUME	441995.095	3760757.049	201.92
LOCATION L0042383	VOLUME	441995.101	3760762.049	201.96
LOCATION L0042384	VOLUME	441995.107	3760767.049	201.99
LOCATION L0042385	VOLUME	441995.114	3760772.049	202.03
LOCATION L0042386	VOLUME	441995.120	3760777.049	202.06
LOCATION L0042387	VOLUME	441995.126	3760782.049	202.08
LOCATION L0042388	VOLUME	441995.132	3760787.049	202.10
LOCATION L0042389	VOLUME	441995.138	3760792.049	202.13
LOCATION L0042390	VOLUME	441995.144	3760797.049	202.15
LOCATION L0042391	VOLUME	441995.151	3760802.049	202.17

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LOCATION L0042392	VOLUME	441995.157	3760807.049	202.19
LOCATION L0042393	VOLUME	441995.163	3760812.049	202.21
LOCATION L0042394	VOLUME	441995.169	3760817.049	202.24
LOCATION L0042395	VOLUME	441995.175	3760822.049	202.27
LOCATION L0042396	VOLUME	441995.181	3760827.049	202.30
LOCATION L0042397	VOLUME	441995.188	3760832.049	202.33
LOCATION L0042398	VOLUME	441995.194	3760837.049	202.36
LOCATION L0042399	VOLUME	441995.200	3760842.049	202.40
LOCATION L0042400	VOLUME	441995.206	3760847.049	202.43
LOCATION L0042401	VOLUME	441995.212	3760852.049	202.47

\*\* End of LINE VOLUME Source ID = SLINE21

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE22

\*\* DESCRSRC Grove Ave - Driveway #11 to Driveway #9

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.45E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 7

\*\* 441994.958, 3760853.741, 202.59, 3.66, 2.33

\*\* 441994.358, 3761106.578, 204.17, 3.66, 2.33

\*\* 441994.358, 3761250.177, 205.36, 3.66, 2.33

\*\* 441994.358, 3761265.018, 205.35, 3.66, 2.33

\*\* 441992.765, 3761269.907, 205.38, 3.66, 2.33

\*\* 441980.470, 3761269.907, 205.50, 3.66, 2.33

\*\* 441819.956, 3761270.745, 205.64, 3.66, 2.33

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LOCATION L0042402	VOLUME	441994.952	3760856.241	202.50
LOCATION L0042403	VOLUME	441994.940	3760861.241	202.54
LOCATION L0042404	VOLUME	441994.928	3760866.241	202.57
LOCATION L0042405	VOLUME	441994.916	3760871.241	202.61
LOCATION L0042406	VOLUME	441994.904	3760876.241	202.64
LOCATION L0042407	VOLUME	441994.892	3760881.241	202.68
LOCATION L0042408	VOLUME	441994.881	3760886.241	202.71
LOCATION L0042409	VOLUME	441994.869	3760891.241	202.74
LOCATION L0042410	VOLUME	441994.857	3760896.241	202.77
LOCATION L0042411	VOLUME	441994.845	3760901.241	202.81
LOCATION L0042412	VOLUME	441994.833	3760906.241	202.85
LOCATION L0042413	VOLUME	441994.821	3760911.241	202.89
LOCATION L0042414	VOLUME	441994.809	3760916.241	202.93
LOCATION L0042415	VOLUME	441994.798	3760921.241	202.97
LOCATION L0042416	VOLUME	441994.786	3760926.241	203.01
LOCATION L0042417	VOLUME	441994.774	3760931.241	203.05
LOCATION L0042418	VOLUME	441994.762	3760936.241	203.09
LOCATION L0042419	VOLUME	441994.750	3760941.241	203.12

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LOCATION L0042420	VOLUME	441994.738	3760946.241	203.16
LOCATION L0042421	VOLUME	441994.726	3760951.241	203.19
LOCATION L0042422	VOLUME	441994.714	3760956.241	203.23
LOCATION L0042423	VOLUME	441994.703	3760961.241	203.26
LOCATION L0042424	VOLUME	441994.691	3760966.241	203.29
LOCATION L0042425	VOLUME	441994.679	3760971.241	203.33
LOCATION L0042426	VOLUME	441994.667	3760976.241	203.36
LOCATION L0042427	VOLUME	441994.655	3760981.241	203.39
LOCATION L0042428	VOLUME	441994.643	3760986.241	203.42
LOCATION L0042429	VOLUME	441994.631	3760991.241	203.45
LOCATION L0042430	VOLUME	441994.619	3760996.241	203.49
LOCATION L0042431	VOLUME	441994.608	3761001.241	203.52
LOCATION L0042432	VOLUME	441994.596	3761006.241	203.56
LOCATION L0042433	VOLUME	441994.584	3761011.241	203.59
LOCATION L0042434	VOLUME	441994.572	3761016.241	203.63
LOCATION L0042435	VOLUME	441994.560	3761021.241	203.66
LOCATION L0042436	VOLUME	441994.548	3761026.241	203.69
LOCATION L0042437	VOLUME	441994.536	3761031.241	203.71
LOCATION L0042438	VOLUME	441994.525	3761036.241	203.73
LOCATION L0042439	VOLUME	441994.513	3761041.241	203.76
LOCATION L0042440	VOLUME	441994.501	3761046.241	203.78
LOCATION L0042441	VOLUME	441994.489	3761051.241	203.80
LOCATION L0042442	VOLUME	441994.477	3761056.241	203.82
LOCATION L0042443	VOLUME	441994.465	3761061.241	203.85
LOCATION L0042444	VOLUME	441994.453	3761066.241	203.88
LOCATION L0042445	VOLUME	441994.441	3761071.241	203.91
LOCATION L0042446	VOLUME	441994.430	3761076.241	203.94
LOCATION L0042447	VOLUME	441994.418	3761081.241	203.97
LOCATION L0042448	VOLUME	441994.406	3761086.241	204.00
LOCATION L0042449	VOLUME	441994.394	3761091.241	204.03
LOCATION L0042450	VOLUME	441994.382	3761096.241	204.06
LOCATION L0042451	VOLUME	441994.370	3761101.241	204.09
LOCATION L0042452	VOLUME	441994.358	3761106.241	204.12
LOCATION L0042453	VOLUME	441994.358	3761111.241	204.15
LOCATION L0042454	VOLUME	441994.358	3761116.241	204.18
LOCATION L0042455	VOLUME	441994.358	3761121.241	204.21
LOCATION L0042456	VOLUME	441994.358	3761126.241	204.24
LOCATION L0042457	VOLUME	441994.358	3761131.241	204.27
LOCATION L0042458	VOLUME	441994.358	3761136.241	204.30
LOCATION L0042459	VOLUME	441994.358	3761141.241	204.34
LOCATION L0042460	VOLUME	441994.358	3761146.241	204.37
LOCATION L0042461	VOLUME	441994.358	3761151.241	204.41
LOCATION L0042462	VOLUME	441994.358	3761156.241	204.45
LOCATION L0042463	VOLUME	441994.358	3761161.241	204.50
LOCATION L0042464	VOLUME	441994.358	3761166.241	204.54
LOCATION L0042465	VOLUME	441994.358	3761171.241	204.58
LOCATION L0042466	VOLUME	441994.358	3761176.241	204.63
LOCATION L0042467	VOLUME	441994.358	3761181.241	204.68

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LOCATION L0042468	VOLUME	441994.358	3761186.241	204.73
LOCATION L0042469	VOLUME	441994.358	3761191.241	204.79
LOCATION L0042470	VOLUME	441994.358	3761196.241	204.84
LOCATION L0042471	VOLUME	441994.358	3761201.241	204.90
LOCATION L0042472	VOLUME	441994.358	3761206.241	204.95
LOCATION L0042473	VOLUME	441994.358	3761211.241	205.00
LOCATION L0042474	VOLUME	441994.358	3761216.241	205.02
LOCATION L0042475	VOLUME	441994.358	3761221.241	205.05
LOCATION L0042476	VOLUME	441994.358	3761226.241	205.08
LOCATION L0042477	VOLUME	441994.358	3761231.241	205.10
LOCATION L0042478	VOLUME	441994.358	3761236.241	205.13
LOCATION L0042479	VOLUME	441994.358	3761241.241	205.16
LOCATION L0042480	VOLUME	441994.358	3761246.241	205.19
LOCATION L0042481	VOLUME	441994.358	3761251.241	205.22
LOCATION L0042482	VOLUME	441994.358	3761256.241	205.25
LOCATION L0042483	VOLUME	441994.358	3761261.241	205.28
LOCATION L0042484	VOLUME	441993.979	3761266.180	205.31
LOCATION L0042485	VOLUME	441991.684	3761269.907	205.36
LOCATION L0042486	VOLUME	441986.684	3761269.907	205.42
LOCATION L0042487	VOLUME	441981.684	3761269.907	205.48
LOCATION L0042488	VOLUME	441976.684	3761269.927	205.53
LOCATION L0042489	VOLUME	441971.684	3761269.953	205.58
LOCATION L0042490	VOLUME	441966.685	3761269.979	205.62
LOCATION L0042491	VOLUME	441961.685	3761270.005	205.66
LOCATION L0042492	VOLUME	441956.685	3761270.031	205.71
LOCATION L0042493	VOLUME	441951.685	3761270.057	205.72
LOCATION L0042494	VOLUME	441946.685	3761270.083	205.73
LOCATION L0042495	VOLUME	441941.685	3761270.110	205.74
LOCATION L0042496	VOLUME	441936.685	3761270.136	205.74
LOCATION L0042497	VOLUME	441931.685	3761270.162	205.75
LOCATION L0042498	VOLUME	441926.685	3761270.188	205.78
LOCATION L0042499	VOLUME	441921.685	3761270.214	205.82
LOCATION L0042500	VOLUME	441916.685	3761270.240	205.87
LOCATION L0042501	VOLUME	441911.685	3761270.266	205.92
LOCATION L0042502	VOLUME	441906.685	3761270.292	205.96
LOCATION L0042503	VOLUME	441901.685	3761270.318	205.99
LOCATION L0042504	VOLUME	441896.686	3761270.345	206.00
LOCATION L0042505	VOLUME	441891.686	3761270.371	206.00
LOCATION L0042506	VOLUME	441886.686	3761270.397	206.01
LOCATION L0042507	VOLUME	441881.686	3761270.423	206.01
LOCATION L0042508	VOLUME	441876.686	3761270.449	206.01
LOCATION L0042509	VOLUME	441871.686	3761270.475	206.00
LOCATION L0042510	VOLUME	441866.686	3761270.501	206.00
LOCATION L0042511	VOLUME	441861.686	3761270.527	205.99
LOCATION L0042512	VOLUME	441856.686	3761270.554	205.98
LOCATION L0042513	VOLUME	441851.686	3761270.580	205.96
LOCATION L0042514	VOLUME	441846.686	3761270.606	205.90
LOCATION L0042515	VOLUME	441841.686	3761270.632	205.84



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LOCATION L0042516	VOLUME	441836.686	3761270.658	205.78
LOCATION L0042517	VOLUME	441831.686	3761270.684	205.72
LOCATION L0042518	VOLUME	441826.686	3761270.710	205.65
LOCATION L0042519	VOLUME	441821.687	3761270.736	205.63

\*\* End of LINE VOLUME Source ID = SLINE22

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE23

\*\* DESCRSRC Eucalyptus Ave - Bon View Ave to Driveway #4

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.75E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441188.940, 3761269.592, 204.07, 3.66, 2.33

\*\* 441370.765, 3761270.242, 204.91, 3.66, 2.33

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LOCATION L0042520      VOLUME    441191.440   3761269.601   204.08  
LOCATION L0042521      VOLUME    441196.440   3761269.618   204.13  
LOCATION L0042522      VOLUME    441201.440   3761269.636   204.19  
LOCATION L0042523      VOLUME    441206.440   3761269.654   204.24  
LOCATION L0042524      VOLUME    441211.440   3761269.672   204.29  
LOCATION L0042525      VOLUME    441216.440   3761269.690   204.30  
LOCATION L0042526      VOLUME    441221.440   3761269.708   204.32  
LOCATION L0042527      VOLUME    441226.440   3761269.726   204.34  
LOCATION L0042528      VOLUME    441231.440   3761269.744   204.36  
LOCATION L0042529      VOLUME    441236.440   3761269.762   204.38  
LOCATION L0042530      VOLUME    441241.440   3761269.780   204.40  
LOCATION L0042531      VOLUME    441246.440   3761269.797   204.42  
LOCATION L0042532      VOLUME    441251.440   3761269.815   204.44  
LOCATION L0042533      VOLUME    441256.440   3761269.833   204.46  
LOCATION L0042534      VOLUME    441261.440   3761269.851   204.48  
LOCATION L0042535      VOLUME    441266.440   3761269.869   204.49  
LOCATION L0042536      VOLUME    441271.440   3761269.887   204.51  
LOCATION L0042537      VOLUME    441276.440   3761269.905   204.52  
LOCATION L0042538      VOLUME    441281.439   3761269.923   204.53  
LOCATION L0042539      VOLUME    441286.439   3761269.941   204.55  
LOCATION L0042540      VOLUME    441291.439   3761269.959   204.56  
LOCATION L0042541      VOLUME    441296.439   3761269.976   204.58  
LOCATION L0042542      VOLUME    441301.439   3761269.994   204.59  
LOCATION L0042543      VOLUME    441306.439   3761270.012   204.61  
LOCATION L0042544      VOLUME    441311.439   3761270.030   204.62  
LOCATION L0042545      VOLUME    441316.439   3761270.048   204.64  
LOCATION L0042546      VOLUME    441321.439   3761270.066   204.67  
LOCATION L0042547      VOLUME    441326.439   3761270.084   204.69  
LOCATION L0042548      VOLUME    441331.439   3761270.102   204.71

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LOCATION L0042549	VOLUME	441336.439	3761270.120	204.73
LOCATION L0042550	VOLUME	441341.439	3761270.138	204.75
LOCATION L0042551	VOLUME	441346.439	3761270.155	204.77
LOCATION L0042552	VOLUME	441351.439	3761270.173	204.79
LOCATION L0042553	VOLUME	441356.439	3761270.191	204.81
LOCATION L0042554	VOLUME	441361.439	3761270.209	204.82
LOCATION L0042555	VOLUME	441366.439	3761270.227	204.85

\*\* End of LINE VOLUME Source ID = SLINE23

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE24

\*\* DESCRSRC Eucalyptus Ave - Driveway #4 to Driveway #6

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.45E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441367.749, 3761270.269, 204.92, 3.66, 2.33

\*\* 441508.074, 3761269.949, 204.72, 3.66, 2.33

\*\* -----

LOCATION L0042556	VOLUME	441370.249	3761270.263	204.87
LOCATION L0042557	VOLUME	441375.249	3761270.252	204.90
LOCATION L0042558	VOLUME	441380.249	3761270.240	204.92
LOCATION L0042559	VOLUME	441385.249	3761270.229	204.95
LOCATION L0042560	VOLUME	441390.249	3761270.218	204.98
LOCATION L0042561	VOLUME	441395.249	3761270.206	204.99
LOCATION L0042562	VOLUME	441400.249	3761270.195	205.01
LOCATION L0042563	VOLUME	441405.249	3761270.183	205.02
LOCATION L0042564	VOLUME	441410.249	3761270.172	205.04
LOCATION L0042565	VOLUME	441415.249	3761270.161	205.05
LOCATION L0042566	VOLUME	441420.249	3761270.149	205.05
LOCATION L0042567	VOLUME	441425.249	3761270.138	205.05
LOCATION L0042568	VOLUME	441430.249	3761270.126	205.04
LOCATION L0042569	VOLUME	441435.249	3761270.115	205.04
LOCATION L0042570	VOLUME	441440.249	3761270.104	205.03
LOCATION L0042571	VOLUME	441445.249	3761270.092	204.99
LOCATION L0042572	VOLUME	441450.249	3761270.081	204.94
LOCATION L0042573	VOLUME	441455.249	3761270.069	204.88
LOCATION L0042574	VOLUME	441460.249	3761270.058	204.82
LOCATION L0042575	VOLUME	441465.249	3761270.046	204.76
LOCATION L0042576	VOLUME	441470.249	3761270.035	204.69
LOCATION L0042577	VOLUME	441475.249	3761270.024	204.62
LOCATION L0042578	VOLUME	441480.249	3761270.012	204.54
LOCATION L0042579	VOLUME	441485.249	3761270.001	204.46
LOCATION L0042580	VOLUME	441490.249	3761269.989	204.39
LOCATION L0042581	VOLUME	441495.249	3761269.978	204.39

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LOCATION L0042582 VOLUME 441500.249 3761269.967 204.49  
LOCATION L0042583 VOLUME 441505.249 3761269.955 204.60

\*\* End of LINE VOLUME Source ID = SLINE24

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE25

\*\* DESCRSRC Eucalyptus Ave - Driveway #6 to Driveway #8

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.08E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441505.917, 3761269.946, 204.64, 3.66, 2.33

\*\* 441658.896, 3761269.990, 205.41, 3.66, 2.33

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LOCATION L0042584 VOLUME 441508.417 3761269.947 204.67  
LOCATION L0042585 VOLUME 441513.417 3761269.948 204.78  
LOCATION L0042586 VOLUME 441518.417 3761269.950 204.89  
LOCATION L0042587 VOLUME 441523.417 3761269.951 204.89  
LOCATION L0042588 VOLUME 441528.417 3761269.953 204.89  
LOCATION L0042589 VOLUME 441533.417 3761269.954 204.89  
LOCATION L0042590 VOLUME 441538.417 3761269.955 204.89  
LOCATION L0042591 VOLUME 441543.417 3761269.957 204.90  
LOCATION L0042592 VOLUME 441548.417 3761269.958 204.91  
LOCATION L0042593 VOLUME 441553.417 3761269.960 204.93  
LOCATION L0042594 VOLUME 441558.417 3761269.961 204.95  
LOCATION L0042595 VOLUME 441563.417 3761269.963 204.97  
LOCATION L0042596 VOLUME 441568.417 3761269.964 204.99  
LOCATION L0042597 VOLUME 441573.417 3761269.965 205.03  
LOCATION L0042598 VOLUME 441578.417 3761269.967 205.10  
LOCATION L0042599 VOLUME 441583.417 3761269.968 205.16  
LOCATION L0042600 VOLUME 441588.417 3761269.970 205.22  
LOCATION L0042601 VOLUME 441593.417 3761269.971 205.28  
LOCATION L0042602 VOLUME 441598.417 3761269.973 205.34  
LOCATION L0042603 VOLUME 441603.417 3761269.974 205.40  
LOCATION L0042604 VOLUME 441608.417 3761269.975 205.45  
LOCATION L0042605 VOLUME 441613.417 3761269.977 205.50  
LOCATION L0042606 VOLUME 441618.417 3761269.978 205.56  
LOCATION L0042607 VOLUME 441623.417 3761269.980 205.58  
LOCATION L0042608 VOLUME 441628.417 3761269.981 205.55  
LOCATION L0042609 VOLUME 441633.417 3761269.983 205.51  
LOCATION L0042610 VOLUME 441638.417 3761269.984 205.48  
LOCATION L0042611 VOLUME 441643.417 3761269.985 205.45  
LOCATION L0042612 VOLUME 441648.417 3761269.987 205.42  
LOCATION L0042613 VOLUME 441653.417 3761269.988 205.41  
LOCATION L0042614 VOLUME 441658.417 3761269.990 205.40

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```
** End of LINE VOLUME Source ID = SLINE25
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Eucalyptus Ave - Driveway #8 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.18E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.411, 3761270.258, 205.41, 3.66, 2.33
** 441819.475, 3761270.767, 205.64, 3.66, 2.33
** -----
LOCATION L0042615    VOLUME  441661.911 3761270.266 205.40
LOCATION L0042616    VOLUME  441666.911 3761270.282 205.39
LOCATION L0042617    VOLUME  441671.911 3761270.298 205.39
LOCATION L0042618    VOLUME  441676.911 3761270.314 205.39
LOCATION L0042619    VOLUME  441681.911 3761270.330 205.41
LOCATION L0042620    VOLUME  441686.911 3761270.346 205.42
LOCATION L0042621    VOLUME  441691.911 3761270.361 205.43
LOCATION L0042622    VOLUME  441696.911 3761270.377 205.44
LOCATION L0042623    VOLUME  441701.911 3761270.393 205.45
LOCATION L0042624    VOLUME  441706.911 3761270.409 205.45
LOCATION L0042625    VOLUME  441711.911 3761270.425 205.46
LOCATION L0042626    VOLUME  441716.911 3761270.441 205.47
LOCATION L0042627    VOLUME  441721.911 3761270.457 205.47
LOCATION L0042628    VOLUME  441726.910 3761270.473 205.47
LOCATION L0042629    VOLUME  441731.910 3761270.488 205.48
LOCATION L0042630    VOLUME  441736.910 3761270.504 205.48
LOCATION L0042631    VOLUME  441741.910 3761270.520 205.48
LOCATION L0042632    VOLUME  441746.910 3761270.536 205.48
LOCATION L0042633    VOLUME  441751.910 3761270.552 205.48
LOCATION L0042634    VOLUME  441756.910 3761270.568 205.49
LOCATION L0042635    VOLUME  441761.910 3761270.584 205.50
LOCATION L0042636    VOLUME  441766.910 3761270.600 205.51
LOCATION L0042637    VOLUME  441771.910 3761270.616 205.51
LOCATION L0042638    VOLUME  441776.910 3761270.631 205.52
LOCATION L0042639    VOLUME  441781.910 3761270.647 205.53
LOCATION L0042640    VOLUME  441786.910 3761270.663 205.53
LOCATION L0042641    VOLUME  441791.910 3761270.679 205.53
LOCATION L0042642    VOLUME  441796.910 3761270.695 205.54
LOCATION L0042643    VOLUME  441801.910 3761270.711 205.55
LOCATION L0042644    VOLUME  441806.910 3761270.727 205.57
LOCATION L0042645    VOLUME  441811.910 3761270.743 205.59
LOCATION L0042646    VOLUME  441816.910 3761270.758 205.61
** End of LINE VOLUME Source ID = SLINE26
```

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** -----  
** Line Source Represented by Adjacent Volume Sources  
** LINE VOLUME Source ID = SLINE27  
** DESCRSRC Driveway 4  
** PREFIX  
** Length of Side = 5.00  
** Configuration = Adjacent  
** Emission Rate = 3.48E-07  
** Vertical Dimension = 6.22  
** SZINIT = 2.89  
** Nodes = 2  
** 441370.682, 3761269.731, 204.91, 3.66, 2.33  
** 441372.563, 3761145.448, 203.68, 3.66, 2.33  
** -----
```

LOCATION	VOLUME				
L0042647	VOLUME	441370.720	3761267.231	204.81	
L0042648	VOLUME	441370.795	3761262.232	204.71	
L0042649	VOLUME	441370.871	3761257.232	204.61	
L0042650	VOLUME	441370.947	3761252.233	204.51	
L0042651	VOLUME	441371.022	3761247.234	204.41	
L0042652	VOLUME	441371.098	3761242.234	204.33	
L0042653	VOLUME	441371.174	3761237.235	204.28	
L0042654	VOLUME	441371.249	3761232.235	204.23	
L0042655	VOLUME	441371.325	3761227.236	204.18	
L0042656	VOLUME	441371.401	3761222.236	204.13	
L0042657	VOLUME	441371.476	3761217.237	204.08	
L0042658	VOLUME	441371.552	3761212.238	204.04	
L0042659	VOLUME	441371.628	3761207.238	204.01	
L0042660	VOLUME	441371.703	3761202.239	203.99	
L0042661	VOLUME	441371.779	3761197.239	203.96	
L0042662	VOLUME	441371.855	3761192.240	203.94	
L0042663	VOLUME	441371.930	3761187.240	203.92	
L0042664	VOLUME	441372.006	3761182.241	203.89	
L0042665	VOLUME	441372.082	3761177.242	203.86	
L0042666	VOLUME	441372.157	3761172.242	203.83	
L0042667	VOLUME	441372.233	3761167.243	203.80	
L0042668	VOLUME	441372.309	3761162.243	203.77	
L0042669	VOLUME	441372.384	3761157.244	203.74	
L0042670	VOLUME	441372.460	3761152.245	203.71	
L0042671	VOLUME	441372.535	3761147.245	203.68	

```
** End of LINE VOLUME Source ID = SLINE27  
** -----  
** Line Source Represented by Adjacent Volume Sources  
** LINE VOLUME Source ID = SLINE28  
** DESCRSRC Driveway 6  
** PREFIX  
** Length of Side = 5.00  
** Configuration = Adjacent  
** Emission Rate = 3.47E-07
```

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\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441508.279, 3761268.964, 204.73, 3.66, 2.33

\*\* 441508.879, 3761144.904, 203.69, 3.66, 2.33

\*\*

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-----
LOCATION L0042672      VOLUME  441508.291 3761266.464 204.65
LOCATION L0042673      VOLUME  441508.316 3761261.464 204.61
LOCATION L0042674      VOLUME  441508.340 3761256.464 204.58
LOCATION L0042675      VOLUME  441508.364 3761251.464 204.55
LOCATION L0042676      VOLUME  441508.388 3761246.464 204.52
LOCATION L0042677      VOLUME  441508.412 3761241.464 204.47
LOCATION L0042678      VOLUME  441508.437 3761236.464 204.42
LOCATION L0042679      VOLUME  441508.461 3761231.464 204.36
LOCATION L0042680      VOLUME  441508.485 3761226.464 204.30
LOCATION L0042681      VOLUME  441508.509 3761221.464 204.25
LOCATION L0042682      VOLUME  441508.533 3761216.464 204.19
LOCATION L0042683      VOLUME  441508.557 3761211.464 204.14
LOCATION L0042684      VOLUME  441508.582 3761206.464 204.10
LOCATION L0042685      VOLUME  441508.606 3761201.464 204.06
LOCATION L0042686      VOLUME  441508.630 3761196.465 204.03
LOCATION L0042687      VOLUME  441508.654 3761191.465 203.99
LOCATION L0042688      VOLUME  441508.678 3761186.465 203.96
LOCATION L0042689      VOLUME  441508.702 3761181.465 203.92
LOCATION L0042690      VOLUME  441508.727 3761176.465 203.89
LOCATION L0042691      VOLUME  441508.751 3761171.465 203.85
LOCATION L0042692      VOLUME  441508.775 3761166.465 203.82
LOCATION L0042693      VOLUME  441508.799 3761161.465 203.78
LOCATION L0042694      VOLUME  441508.823 3761156.465 203.75
LOCATION L0042695      VOLUME  441508.848 3761151.465 203.71
LOCATION L0042696      VOLUME  441508.872 3761146.465 203.68

```

\*\* End of LINE VOLUME Source ID = SLINE28

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE29

\*\* DESCRSRC Driveway 8

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.48E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441659.118, 3761269.215, 205.41, 3.66, 2.33

\*\* 441659.907, 3761144.756, 203.99, 3.66, 2.33

\*\*

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-----
LOCATION L0042697      VOLUME  441659.133 3761266.715 205.37
LOCATION L0042698      VOLUME  441659.165 3761261.715 205.33

```

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042699	441659.197	SLINE29	3761256.715	205.28	
L0042700	441659.229	SLINE29	3761251.715	205.24	
L0042701	441659.260	SLINE29	3761246.715	205.19	
L0042702	441659.292	SLINE29	3761241.715	205.14	
L0042703	441659.324	SLINE29	3761236.715	205.09	
L0042704	441659.355	SLINE29	3761231.715	205.04	
L0042705	441659.387	SLINE29	3761226.716	204.98	
L0042706	441659.419	SLINE29	3761221.716	204.93	
L0042707	441659.451	SLINE29	3761216.716	204.88	
L0042708	441659.482	SLINE29	3761211.716	204.82	
L0042709	441659.514	SLINE29	3761206.716	204.77	
L0042710	441659.546	SLINE29	3761201.716	204.72	
L0042711	441659.578	SLINE29	3761196.716	204.66	
L0042712	441659.609	SLINE29	3761191.716	204.61	
L0042713	441659.641	SLINE29	3761186.716	204.55	
L0042714	441659.673	SLINE29	3761181.716	204.50	
L0042715	441659.704	SLINE29	3761176.717	204.45	
L0042716	441659.736	SLINE29	3761171.717	204.40	
L0042717	441659.768	SLINE29	3761166.717	204.35	
L0042718	441659.800	SLINE29	3761161.717	204.30	
L0042719	441659.831	SLINE29	3761156.717	204.25	
L0042720	441659.863	SLINE29	3761151.717	204.20	
L0042721	441659.895	SLINE29	3761146.717	204.16	

\*\* End of LINE VOLUME Source ID = SLINE29

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE30

\*\* DESCRSRC Driveway 9

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.89E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441819.214, 3761269.765, 205.63, 3.66, 2.33

\*\* 441818.253, 3761146.627, 204.42, 3.66, 2.33

\*\* -----

LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042722	441819.194	SLINE30	3761267.265	205.60	
L0042723	441819.155	SLINE30	3761262.266	205.57	
L0042724	441819.116	SLINE30	3761257.266	205.55	
L0042725	441819.077	SLINE30	3761252.266	205.52	
L0042726	441819.038	SLINE30	3761247.266	205.49	
L0042727	441818.999	SLINE30	3761242.266	205.46	
L0042728	441818.960	SLINE30	3761237.266	205.41	
L0042729	441818.921	SLINE30	3761232.267	205.35	
L0042730	441818.882	SLINE30	3761227.267	205.29	
L0042731	441818.843	SLINE30	3761222.267	205.22	

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LOCATION L0042732	VOLUME	441818.804	3761217.267	205.16
LOCATION L0042733	VOLUME	441818.765	3761212.267	205.10
LOCATION L0042734	VOLUME	441818.726	3761207.267	205.04
LOCATION L0042735	VOLUME	441818.687	3761202.267	204.99
LOCATION L0042736	VOLUME	441818.648	3761197.268	204.93
LOCATION L0042737	VOLUME	441818.609	3761192.268	204.88
LOCATION L0042738	VOLUME	441818.570	3761187.268	204.82
LOCATION L0042739	VOLUME	441818.531	3761182.268	204.77
LOCATION L0042740	VOLUME	441818.492	3761177.268	204.72
LOCATION L0042741	VOLUME	441818.453	3761172.268	204.68
LOCATION L0042742	VOLUME	441818.414	3761167.269	204.63
LOCATION L0042743	VOLUME	441818.375	3761162.269	204.59
LOCATION L0042744	VOLUME	441818.336	3761157.269	204.55
LOCATION L0042745	VOLUME	441818.297	3761152.269	204.50
LOCATION L0042746	VOLUME	441818.258	3761147.269	204.45

\*\* End of LINE VOLUME Source ID = SLINE30

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE31

\*\* DESCRSRC On-Site Circulation - Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.99E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441962.653, 3760855.742, 202.78, 3.66, 2.33

\*\* 441536.461, 3760857.831, 202.08, 3.66, 2.33

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LOCATION L0042747	VOLUME	441960.153	3760855.754	202.73
LOCATION L0042748	VOLUME	441955.153	3760855.778	202.78
LOCATION L0042749	VOLUME	441950.153	3760855.803	202.79
LOCATION L0042750	VOLUME	441945.153	3760855.827	202.77
LOCATION L0042751	VOLUME	441940.153	3760855.852	202.75
LOCATION L0042752	VOLUME	441935.153	3760855.876	202.72
LOCATION L0042753	VOLUME	441930.153	3760855.901	202.70
LOCATION L0042754	VOLUME	441925.153	3760855.926	202.67
LOCATION L0042755	VOLUME	441920.153	3760855.950	202.64
LOCATION L0042756	VOLUME	441915.153	3760855.975	202.61
LOCATION L0042757	VOLUME	441910.153	3760855.999	202.58
LOCATION L0042758	VOLUME	441905.153	3760856.024	202.55
LOCATION L0042759	VOLUME	441900.153	3760856.048	202.52
LOCATION L0042760	VOLUME	441895.153	3760856.073	202.50
LOCATION L0042761	VOLUME	441890.153	3760856.097	202.47
LOCATION L0042762	VOLUME	441885.153	3760856.122	202.45
LOCATION L0042763	VOLUME	441880.154	3760856.146	202.42
LOCATION L0042764	VOLUME	441875.154	3760856.171	202.40



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LOCATION L0042765	VOLUME	441870.154	3760856.195	202.38
LOCATION L0042766	VOLUME	441865.154	3760856.220	202.37
LOCATION L0042767	VOLUME	441860.154	3760856.244	202.36
LOCATION L0042768	VOLUME	441855.154	3760856.269	202.34
LOCATION L0042769	VOLUME	441850.154	3760856.293	202.33
LOCATION L0042770	VOLUME	441845.154	3760856.318	202.33
LOCATION L0042771	VOLUME	441840.154	3760856.342	202.34
LOCATION L0042772	VOLUME	441835.154	3760856.367	202.34
LOCATION L0042773	VOLUME	441830.154	3760856.391	202.34
LOCATION L0042774	VOLUME	441825.154	3760856.416	202.35
LOCATION L0042775	VOLUME	441820.154	3760856.440	202.35
LOCATION L0042776	VOLUME	441815.154	3760856.465	202.35
LOCATION L0042777	VOLUME	441810.154	3760856.489	202.35
LOCATION L0042778	VOLUME	441805.154	3760856.514	202.35
LOCATION L0042779	VOLUME	441800.154	3760856.538	202.35
LOCATION L0042780	VOLUME	441795.155	3760856.563	202.34
LOCATION L0042781	VOLUME	441790.155	3760856.587	202.34
LOCATION L0042782	VOLUME	441785.155	3760856.612	202.34
LOCATION L0042783	VOLUME	441780.155	3760856.636	202.33
LOCATION L0042784	VOLUME	441775.155	3760856.661	202.33
LOCATION L0042785	VOLUME	441770.155	3760856.685	202.32
LOCATION L0042786	VOLUME	441765.155	3760856.710	202.30
LOCATION L0042787	VOLUME	441760.155	3760856.735	202.28
LOCATION L0042788	VOLUME	441755.155	3760856.759	202.26
LOCATION L0042789	VOLUME	441750.155	3760856.784	202.24
LOCATION L0042790	VOLUME	441745.155	3760856.808	202.23
LOCATION L0042791	VOLUME	441740.155	3760856.833	202.21
LOCATION L0042792	VOLUME	441735.155	3760856.857	202.20
LOCATION L0042793	VOLUME	441730.155	3760856.882	202.19
LOCATION L0042794	VOLUME	441725.155	3760856.906	202.18
LOCATION L0042795	VOLUME	441720.155	3760856.931	202.17
LOCATION L0042796	VOLUME	441715.156	3760856.955	202.16
LOCATION L0042797	VOLUME	441710.156	3760856.980	202.15
LOCATION L0042798	VOLUME	441705.156	3760857.004	202.15
LOCATION L0042799	VOLUME	441700.156	3760857.029	202.14
LOCATION L0042800	VOLUME	441695.156	3760857.053	202.13
LOCATION L0042801	VOLUME	441690.156	3760857.078	202.12
LOCATION L0042802	VOLUME	441685.156	3760857.102	202.12
LOCATION L0042803	VOLUME	441680.156	3760857.127	202.11
LOCATION L0042804	VOLUME	441675.156	3760857.151	202.10
LOCATION L0042805	VOLUME	441670.156	3760857.176	202.09
LOCATION L0042806	VOLUME	441665.156	3760857.200	202.09
LOCATION L0042807	VOLUME	441660.156	3760857.225	202.09
LOCATION L0042808	VOLUME	441655.156	3760857.249	202.09
LOCATION L0042809	VOLUME	441650.156	3760857.274	202.09
LOCATION L0042810	VOLUME	441645.156	3760857.298	202.09
LOCATION L0042811	VOLUME	441640.156	3760857.323	202.09
LOCATION L0042812	VOLUME	441635.156	3760857.347	202.09

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LOCATION L0042813	VOLUME	441630.157	3760857.372	202.10
LOCATION L0042814	VOLUME	441625.157	3760857.396	202.10
LOCATION L0042815	VOLUME	441620.157	3760857.421	202.11
LOCATION L0042816	VOLUME	441615.157	3760857.445	202.07
LOCATION L0042817	VOLUME	441610.157	3760857.470	202.03
LOCATION L0042818	VOLUME	441605.157	3760857.494	201.98
LOCATION L0042819	VOLUME	441600.157	3760857.519	201.94
LOCATION L0042820	VOLUME	441595.157	3760857.544	201.89
LOCATION L0042821	VOLUME	441590.157	3760857.568	201.85
LOCATION L0042822	VOLUME	441585.157	3760857.593	201.80
LOCATION L0042823	VOLUME	441580.157	3760857.617	201.75
LOCATION L0042824	VOLUME	441575.157	3760857.642	201.70
LOCATION L0042825	VOLUME	441570.157	3760857.666	201.65
LOCATION L0042826	VOLUME	441565.157	3760857.691	201.67
LOCATION L0042827	VOLUME	441560.157	3760857.715	201.76
LOCATION L0042828	VOLUME	441555.157	3760857.740	201.85
LOCATION L0042829	VOLUME	441550.158	3760857.764	201.94
LOCATION L0042830	VOLUME	441545.158	3760857.789	202.04
LOCATION L0042831	VOLUME	441540.158	3760857.813	202.08

\*\* End of LINE VOLUME Source ID = SLINE31

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE32

\*\* DESCRSRC Driveway 1

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.7E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441191.229, 3761142.587, 202.97, 3.66, 2.33

\*\* 441209.470, 3761142.929, 203.44, 3.66, 2.33

\*\*

LOCATION L0042832	VOLUME	441193.728	3761142.634	203.12
LOCATION L0042833	VOLUME	441198.727	3761142.727	203.21
LOCATION L0042834	VOLUME	441203.726	3761142.821	203.30
LOCATION L0042835	VOLUME	441208.725	3761142.915	203.39

\*\* End of LINE VOLUME Source ID = SLINE32

\*\*

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE33

\*\* DESCRSRC Driveway 7

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.81E-07

\*\* Vertical Dimension = 6.22

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\*\* SZINIT = 2.89

\*\* Nodes = 3

\*\* 441552.117, 3760467.647, 199.96, 3.66, 2.33

\*\* 441552.105, 3760491.622, 199.66, 3.66, 2.33

\*\* 441529.849, 3760518.857, 199.56, 3.66, 2.33

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LOCATION L0042836      VOLUME  441552.116 3760470.147 199.95
LOCATION L0042837      VOLUME  441552.113 3760475.147 199.96
LOCATION L0042838      VOLUME  441552.111 3760480.147 199.88
LOCATION L0042839      VOLUME  441552.108 3760485.147 199.81
LOCATION L0042840      VOLUME  441552.106 3760490.147 199.73
LOCATION L0042841      VOLUME  441549.874 3760494.352 199.68
LOCATION L0042842      VOLUME  441546.710 3760498.223 199.63
LOCATION L0042843      VOLUME  441543.546 3760502.095 199.59
LOCATION L0042844      VOLUME  441540.383 3760505.967 199.58
LOCATION L0042845      VOLUME  441537.219 3760509.838 199.58
LOCATION L0042846      VOLUME  441534.055 3760513.710 199.56
LOCATION L0042847      VOLUME  441530.891 3760517.581 199.55

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\*\* End of LINE VOLUME Source ID = SLINE33

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE34

\*\* DESCRSRC PA 5 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.03E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441746.676, 3760470.154, 200.09, 3.66, 2.33

\*\* 441746.703, 3760499.185, 200.01, 3.66, 2.33

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-----
LOCATION L0042848      VOLUME  441746.679 3760472.654 200.09
LOCATION L0042849      VOLUME  441746.683 3760477.654 200.08
LOCATION L0042850      VOLUME  441746.688 3760482.654 200.07
LOCATION L0042851      VOLUME  441746.693 3760487.654 200.05
LOCATION L0042852      VOLUME  441746.697 3760492.654 200.04
LOCATION L0042853      VOLUME  441746.702 3760497.654 200.02

```

\*\* End of LINE VOLUME Source ID = SLINE34

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE35

\*\* DESCRSRC PA 4 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.58E-07

SOL\_operations\_rev2.ADO

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441186.518, 3760874.815, 201.31, 3.66, 2.33

\*\* 441138.711, 3760874.733, 201.46, 3.66, 2.33

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-----
LOCATION L0042854      VOLUME  441184.018 3760874.811 201.33
LOCATION L0042855      VOLUME  441179.018 3760874.802 201.31
LOCATION L0042856      VOLUME  441174.018 3760874.794 201.31
LOCATION L0042857      VOLUME  441169.018 3760874.785 201.32
LOCATION L0042858      VOLUME  441164.018 3760874.776 201.32
LOCATION L0042859      VOLUME  441159.018 3760874.768 201.32
LOCATION L0042860      VOLUME  441154.018 3760874.759 201.34
LOCATION L0042861      VOLUME  441149.018 3760874.750 201.37
LOCATION L0042862      VOLUME  441144.018 3760874.742 201.40
LOCATION L0042863      VOLUME  441139.018 3760874.733 201.42
```

\*\* End of LINE VOLUME Source ID = SLINE35

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE36

\*\* DESCRSRC PA 4 Driveway - Merrill Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.02E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440992.050, 3760468.043, 197.63, 3.66, 2.33

\*\* 440991.934, 3760506.772, 198.71, 3.66, 2.33

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-----
LOCATION L0042864      VOLUME  440992.043 3760470.543 197.77
LOCATION L0042865      VOLUME  440992.028 3760475.543 197.84
LOCATION L0042866      VOLUME  440992.013 3760480.543 197.97
LOCATION L0042867      VOLUME  440991.998 3760485.543 198.10
LOCATION L0042868      VOLUME  440991.983 3760490.543 198.23
LOCATION L0042869      VOLUME  440991.968 3760495.543 198.36
LOCATION L0042870      VOLUME  440991.953 3760500.543 198.49
LOCATION L0042871      VOLUME  440991.937 3760505.543 198.62
```

\*\* End of LINE VOLUME Source ID = SLINE36

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE37

\*\* DESCRSRC Campus Ave - Merill Ave to PA 4 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 4.27E-06

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\*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2  
 \*\* 440778.565, 3760469.565, 196.71, 3.66, 2.33  
 \*\* 440779.948, 3760845.054, 199.45, 3.66, 2.33

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LOCATION	VOLUME	440778.575	3760472.065	196.71
LOCATION L0042872	VOLUME	440778.575	3760472.065	196.71
LOCATION L0042873	VOLUME	440778.593	3760477.065	196.77
LOCATION L0042874	VOLUME	440778.611	3760482.065	196.80
LOCATION L0042875	VOLUME	440778.630	3760487.065	196.83
LOCATION L0042876	VOLUME	440778.648	3760492.065	196.85
LOCATION L0042877	VOLUME	440778.667	3760497.065	196.88
LOCATION L0042878	VOLUME	440778.685	3760502.065	196.91
LOCATION L0042879	VOLUME	440778.704	3760507.064	196.93
LOCATION L0042880	VOLUME	440778.722	3760512.064	196.97
LOCATION L0042881	VOLUME	440778.740	3760517.064	197.01
LOCATION L0042882	VOLUME	440778.759	3760522.064	197.05
LOCATION L0042883	VOLUME	440778.777	3760527.064	197.09
LOCATION L0042884	VOLUME	440778.796	3760532.064	197.13
LOCATION L0042885	VOLUME	440778.814	3760537.064	197.16
LOCATION L0042886	VOLUME	440778.832	3760542.064	197.21
LOCATION L0042887	VOLUME	440778.851	3760547.064	197.25
LOCATION L0042888	VOLUME	440778.869	3760552.064	197.29
LOCATION L0042889	VOLUME	440778.888	3760557.064	197.33
LOCATION L0042890	VOLUME	440778.906	3760562.064	197.37
LOCATION L0042891	VOLUME	440778.925	3760567.064	197.41
LOCATION L0042892	VOLUME	440778.943	3760572.064	197.45
LOCATION L0042893	VOLUME	440778.961	3760577.064	197.49
LOCATION L0042894	VOLUME	440778.980	3760582.064	197.54
LOCATION L0042895	VOLUME	440778.998	3760587.064	197.58
LOCATION L0042896	VOLUME	440779.017	3760592.064	197.62
LOCATION L0042897	VOLUME	440779.035	3760597.064	197.67
LOCATION L0042898	VOLUME	440779.053	3760602.064	197.71
LOCATION L0042899	VOLUME	440779.072	3760607.064	197.75
LOCATION L0042900	VOLUME	440779.090	3760612.064	197.79
LOCATION L0042901	VOLUME	440779.109	3760617.064	197.83
LOCATION L0042902	VOLUME	440779.127	3760622.064	197.87
LOCATION L0042903	VOLUME	440779.146	3760627.064	197.91
LOCATION L0042904	VOLUME	440779.164	3760632.064	197.95
LOCATION L0042905	VOLUME	440779.182	3760637.064	198.00
LOCATION L0042906	VOLUME	440779.201	3760642.064	198.04
LOCATION L0042907	VOLUME	440779.219	3760647.064	198.08
LOCATION L0042908	VOLUME	440779.238	3760652.064	198.13
LOCATION L0042909	VOLUME	440779.256	3760657.063	198.17
LOCATION L0042910	VOLUME	440779.274	3760662.063	198.22
LOCATION L0042911	VOLUME	440779.293	3760667.063	198.26
LOCATION L0042912	VOLUME	440779.311	3760672.063	198.31
LOCATION L0042913	VOLUME	440779.330	3760677.063	198.35

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LOCATION L0042914	VOLUME	440779.348	3760682.063	198.40
LOCATION L0042915	VOLUME	440779.367	3760687.063	198.44
LOCATION L0042916	VOLUME	440779.385	3760692.063	198.49
LOCATION L0042917	VOLUME	440779.403	3760697.063	198.53
LOCATION L0042918	VOLUME	440779.422	3760702.063	198.57
LOCATION L0042919	VOLUME	440779.440	3760707.063	198.60
LOCATION L0042920	VOLUME	440779.459	3760712.063	198.64
LOCATION L0042921	VOLUME	440779.477	3760717.063	198.68
LOCATION L0042922	VOLUME	440779.495	3760722.063	198.71
LOCATION L0042923	VOLUME	440779.514	3760727.063	198.75
LOCATION L0042924	VOLUME	440779.532	3760732.063	198.78
LOCATION L0042925	VOLUME	440779.551	3760737.063	198.81
LOCATION L0042926	VOLUME	440779.569	3760742.063	198.84
LOCATION L0042927	VOLUME	440779.588	3760747.063	198.87
LOCATION L0042928	VOLUME	440779.606	3760752.063	198.91
LOCATION L0042929	VOLUME	440779.624	3760757.063	198.96
LOCATION L0042930	VOLUME	440779.643	3760762.063	199.05
LOCATION L0042931	VOLUME	440779.661	3760767.063	199.13
LOCATION L0042932	VOLUME	440779.680	3760772.063	199.22
LOCATION L0042933	VOLUME	440779.698	3760777.063	199.31
LOCATION L0042934	VOLUME	440779.716	3760782.063	199.39
LOCATION L0042935	VOLUME	440779.735	3760787.063	199.46
LOCATION L0042936	VOLUME	440779.753	3760792.063	199.47
LOCATION L0042937	VOLUME	440779.772	3760797.063	199.49
LOCATION L0042938	VOLUME	440779.790	3760802.062	199.50
LOCATION L0042939	VOLUME	440779.808	3760807.062	199.51
LOCATION L0042940	VOLUME	440779.827	3760812.062	199.53
LOCATION L0042941	VOLUME	440779.845	3760817.062	199.54
LOCATION L0042942	VOLUME	440779.864	3760822.062	199.52
LOCATION L0042943	VOLUME	440779.882	3760827.062	199.51
LOCATION L0042944	VOLUME	440779.901	3760832.062	199.50
LOCATION L0042945	VOLUME	440779.919	3760837.062	199.49
LOCATION L0042946	VOLUME	440779.937	3760842.062	199.47

\*\* End of LINE VOLUME Source ID = SLINE37

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE38

\*\* DESCRSRC Campus Ave - PA 4 Driveway to PA 3 Driveway

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.36E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.580, 3760844.831, 199.44, 3.66, 2.33

\*\* 440779.840, 3761143.700, 202.02, 3.66, 2.33

\*\*

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LOCATION L0042947	VOLUME	440779.582	3760847.331	199.46
LOCATION L0042948	VOLUME	440779.587	3760852.331	199.49
LOCATION L0042949	VOLUME	440779.591	3760857.331	199.52
LOCATION L0042950	VOLUME	440779.595	3760862.331	199.55
LOCATION L0042951	VOLUME	440779.600	3760867.331	199.58
LOCATION L0042952	VOLUME	440779.604	3760872.331	199.62
LOCATION L0042953	VOLUME	440779.609	3760877.331	199.65
LOCATION L0042954	VOLUME	440779.613	3760882.331	199.68
LOCATION L0042955	VOLUME	440779.617	3760887.331	199.72
LOCATION L0042956	VOLUME	440779.622	3760892.331	199.76
LOCATION L0042957	VOLUME	440779.626	3760897.331	199.80
LOCATION L0042958	VOLUME	440779.630	3760902.331	199.83
LOCATION L0042959	VOLUME	440779.635	3760907.331	199.87
LOCATION L0042960	VOLUME	440779.639	3760912.331	199.91
LOCATION L0042961	VOLUME	440779.643	3760917.331	199.95
LOCATION L0042962	VOLUME	440779.648	3760922.331	199.98
LOCATION L0042963	VOLUME	440779.652	3760927.331	200.02
LOCATION L0042964	VOLUME	440779.656	3760932.331	200.06
LOCATION L0042965	VOLUME	440779.661	3760937.331	200.10
LOCATION L0042966	VOLUME	440779.665	3760942.331	200.13
LOCATION L0042967	VOLUME	440779.669	3760947.331	200.17
LOCATION L0042968	VOLUME	440779.674	3760952.331	200.21
LOCATION L0042969	VOLUME	440779.678	3760957.331	200.24
LOCATION L0042970	VOLUME	440779.682	3760962.331	200.28
LOCATION L0042971	VOLUME	440779.687	3760967.331	200.32
LOCATION L0042972	VOLUME	440779.691	3760972.331	200.36
LOCATION L0042973	VOLUME	440779.695	3760977.331	200.39
LOCATION L0042974	VOLUME	440779.700	3760982.331	200.43
LOCATION L0042975	VOLUME	440779.704	3760987.331	200.47
LOCATION L0042976	VOLUME	440779.708	3760992.331	200.51
LOCATION L0042977	VOLUME	440779.713	3760997.331	200.55
LOCATION L0042978	VOLUME	440779.717	3761002.331	200.59
LOCATION L0042979	VOLUME	440779.721	3761007.331	200.63
LOCATION L0042980	VOLUME	440779.726	3761012.331	200.66
LOCATION L0042981	VOLUME	440779.730	3761017.331	200.70
LOCATION L0042982	VOLUME	440779.734	3761022.331	200.74
LOCATION L0042983	VOLUME	440779.739	3761027.331	200.78
LOCATION L0042984	VOLUME	440779.743	3761032.331	200.81
LOCATION L0042985	VOLUME	440779.747	3761037.331	200.85
LOCATION L0042986	VOLUME	440779.752	3761042.331	200.89
LOCATION L0042987	VOLUME	440779.756	3761047.331	200.93
LOCATION L0042988	VOLUME	440779.760	3761052.331	200.97
LOCATION L0042989	VOLUME	440779.765	3761057.331	201.01
LOCATION L0042990	VOLUME	440779.769	3761062.331	201.05
LOCATION L0042991	VOLUME	440779.773	3761067.331	201.09
LOCATION L0042992	VOLUME	440779.778	3761072.331	201.13
LOCATION L0042993	VOLUME	440779.782	3761077.331	201.17
LOCATION L0042994	VOLUME	440779.786	3761082.331	201.21

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0042995	440779.791	SLINE38	3761087.331	201.25	
L0042996	440779.795	SLINE38	3761092.331	201.29	
L0042997	440779.799	SLINE38	3761097.331	201.33	
L0042998	440779.804	SLINE38	3761102.331	201.38	
L0042999	440779.808	SLINE38	3761107.331	201.43	
L0043000	440779.812	SLINE38	3761112.331	201.47	
L0043001	440779.817	SLINE38	3761117.331	201.52	
L0043002	440779.821	SLINE38	3761122.331	201.56	
L0043003	440779.825	SLINE38	3761127.331	201.61	
L0043004	440779.830	SLINE38	3761132.331	201.67	
L0043005	440779.834	SLINE38	3761137.331	201.72	
L0043006	440779.838	SLINE38	3761142.331	201.78	

\*\* End of LINE VOLUME Source ID = SLINE38

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE39

\*\* DESCRSRC Campus Ave - PA 3 Driveway to Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.69E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.648, 3761144.185, 202.03, 3.66, 2.33

\*\* 440779.529, 3761266.902, 203.58, 3.66, 2.33

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0043007	440779.645	SLINE39	3761146.685	201.83	
L0043008	440779.641	SLINE39	3761151.685	201.88	
L0043009	440779.636	SLINE39	3761156.685	201.94	
L0043010	440779.631	SLINE39	3761161.685	201.99	
L0043011	440779.626	SLINE39	3761166.685	202.05	
L0043012	440779.621	SLINE39	3761171.685	202.10	
L0043013	440779.616	SLINE39	3761176.685	202.15	
L0043014	440779.611	SLINE39	3761181.685	202.21	
L0043015	440779.607	SLINE39	3761186.685	202.26	
L0043016	440779.602	SLINE39	3761191.685	202.33	
L0043017	440779.597	SLINE39	3761196.685	202.39	
L0043018	440779.592	SLINE39	3761201.685	202.45	
L0043019	440779.587	SLINE39	3761206.685	202.51	
L0043020	440779.582	SLINE39	3761211.685	202.58	
L0043021	440779.577	SLINE39	3761216.685	202.64	
L0043022	440779.573	SLINE39	3761221.685	202.72	
L0043023	440779.568	SLINE39	3761226.685	202.81	
L0043024	440779.563	SLINE39	3761231.685	202.90	
L0043025	440779.558	SLINE39	3761236.685	202.99	
L0043026	440779.553	SLINE39	3761241.685	203.07	
L0043027	440779.548	SLINE39	3761246.685	203.16	



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LOCATION L0043028 VOLUME 440779.543 3761251.685 203.25  
LOCATION L0043029 VOLUME 440779.539 3761256.685 203.35  
LOCATION L0043030 VOLUME 440779.534 3761261.685 203.44  
LOCATION L0043031 VOLUME 440779.529 3761266.685 203.54

\*\* End of LINE VOLUME Source ID = SLINE39

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE40

\*\* DESCRSRC Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.25E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440779.198, 3761269.224, 203.65, 3.66, 2.33

\*\* 440942.586, 3761268.039, 204.11, 3.66, 2.33

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LOCATION L0043032 VOLUME 440781.698 3761269.206 203.59  
LOCATION L0043033 VOLUME 440786.698 3761269.170 203.59  
LOCATION L0043034 VOLUME 440791.698 3761269.133 203.59  
LOCATION L0043035 VOLUME 440796.698 3761269.097 203.59  
LOCATION L0043036 VOLUME 440801.698 3761269.061 203.60  
LOCATION L0043037 VOLUME 440806.698 3761269.025 203.62  
LOCATION L0043038 VOLUME 440811.697 3761268.988 203.63  
LOCATION L0043039 VOLUME 440816.697 3761268.952 203.64  
LOCATION L0043040 VOLUME 440821.697 3761268.916 203.66  
LOCATION L0043041 VOLUME 440826.697 3761268.879 203.68  
LOCATION L0043042 VOLUME 440831.697 3761268.843 203.72  
LOCATION L0043043 VOLUME 440836.697 3761268.807 203.77  
LOCATION L0043044 VOLUME 440841.697 3761268.771 203.81  
LOCATION L0043045 VOLUME 440846.697 3761268.734 203.86  
LOCATION L0043046 VOLUME 440851.696 3761268.698 203.90  
LOCATION L0043047 VOLUME 440856.696 3761268.662 203.91  
LOCATION L0043048 VOLUME 440861.696 3761268.626 203.93  
LOCATION L0043049 VOLUME 440866.696 3761268.589 203.94  
LOCATION L0043050 VOLUME 440871.696 3761268.553 203.95  
LOCATION L0043051 VOLUME 440876.696 3761268.517 203.96  
LOCATION L0043052 VOLUME 440881.696 3761268.481 203.98  
LOCATION L0043053 VOLUME 440886.695 3761268.444 203.99  
LOCATION L0043054 VOLUME 440891.695 3761268.408 204.00  
LOCATION L0043055 VOLUME 440896.695 3761268.372 204.01  
LOCATION L0043056 VOLUME 440901.695 3761268.336 204.02  
LOCATION L0043057 VOLUME 440906.695 3761268.299 204.04  
LOCATION L0043058 VOLUME 440911.695 3761268.263 204.05  
LOCATION L0043059 VOLUME 440916.695 3761268.227 204.06  
LOCATION L0043060 VOLUME 440921.695 3761268.191 204.07

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LOCATION L0043061	VOLUME	440926.694	3761268.154	204.08
LOCATION L0043062	VOLUME	440931.694	3761268.118	204.09
LOCATION L0043063	VOLUME	440936.694	3761268.082	204.09
LOCATION L0043064	VOLUME	440941.694	3761268.045	204.09

\*\* End of LINE VOLUME Source ID = SLINE40

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE41

\*\* DESCRSRC Eucalyptus Ave - PA 3 Driveway to Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.39E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440942.599, 3761268.120, 204.11, 3.66, 2.33

\*\* 441189.790, 3761269.451, 204.07, 3.66, 2.33

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LOCATION L0043065 VOLUME 440945.099 3761268.133 204.09  
LOCATION L0043066 VOLUME 440950.099 3761268.160 204.09  
LOCATION L0043067 VOLUME 440955.099 3761268.187 204.09  
LOCATION L0043068 VOLUME 440960.098 3761268.214 204.10  
LOCATION L0043069 VOLUME 440965.098 3761268.241 204.10  
LOCATION L0043070 VOLUME 440970.098 3761268.268 204.11  
LOCATION L0043071 VOLUME 440975.098 3761268.295 204.11  
LOCATION L0043072 VOLUME 440980.098 3761268.322 204.12  
LOCATION L0043073 VOLUME 440985.098 3761268.349 204.13  
LOCATION L0043074 VOLUME 440990.098 3761268.376 204.15  
LOCATION L0043075 VOLUME 440995.098 3761268.402 204.16  
LOCATION L0043076 VOLUME 441000.098 3761268.429 204.18  
LOCATION L0043077 VOLUME 441005.098 3761268.456 204.20  
LOCATION L0043078 VOLUME 441010.098 3761268.483 204.20  
LOCATION L0043079 VOLUME 441015.098 3761268.510 204.20  
LOCATION L0043080 VOLUME 441020.098 3761268.537 204.20  
LOCATION L0043081 VOLUME 441025.098 3761268.564 204.20  
LOCATION L0043082 VOLUME 441030.097 3761268.591 204.20  
LOCATION L0043083 VOLUME 441035.097 3761268.618 204.19  
LOCATION L0043084 VOLUME 441040.097 3761268.645 204.17  
LOCATION L0043085 VOLUME 441045.097 3761268.672 204.15  
LOCATION L0043086 VOLUME 441050.097 3761268.699 204.13  
LOCATION L0043087 VOLUME 441055.097 3761268.725 204.11  
LOCATION L0043088 VOLUME 441060.097 3761268.752 204.09  
LOCATION L0043089 VOLUME 441065.097 3761268.779 204.08  
LOCATION L0043090 VOLUME 441070.097 3761268.806 204.06  
LOCATION L0043091 VOLUME 441075.097 3761268.833 204.05  
LOCATION L0043092 VOLUME 441080.097 3761268.860 204.03  
LOCATION L0043093 VOLUME 441085.097 3761268.887 204.02

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LOCATION L0043094	VOLUME	441090.097	3761268.914	204.01
LOCATION L0043095	VOLUME	441095.097	3761268.941	204.01
LOCATION L0043096	VOLUME	441100.096	3761268.968	204.00
LOCATION L0043097	VOLUME	441105.096	3761268.995	203.99
LOCATION L0043098	VOLUME	441110.096	3761269.022	204.00
LOCATION L0043099	VOLUME	441115.096	3761269.048	204.01
LOCATION L0043100	VOLUME	441120.096	3761269.075	204.03
LOCATION L0043101	VOLUME	441125.096	3761269.102	204.04
LOCATION L0043102	VOLUME	441130.096	3761269.129	204.06
LOCATION L0043103	VOLUME	441135.096	3761269.156	204.07
LOCATION L0043104	VOLUME	441140.096	3761269.183	204.08
LOCATION L0043105	VOLUME	441145.096	3761269.210	204.09
LOCATION L0043106	VOLUME	441150.096	3761269.237	204.10
LOCATION L0043107	VOLUME	441155.096	3761269.264	204.10
LOCATION L0043108	VOLUME	441160.096	3761269.291	204.11
LOCATION L0043109	VOLUME	441165.096	3761269.318	204.09
LOCATION L0043110	VOLUME	441170.095	3761269.344	204.07
LOCATION L0043111	VOLUME	441175.095	3761269.371	204.05
LOCATION L0043112	VOLUME	441180.095	3761269.398	204.04
LOCATION L0043113	VOLUME	441185.095	3761269.425	204.02

\*\* End of LINE VOLUME Source ID = SLINE41

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE42

\*\* DESCRSRC PA 3 Driveway - Bon View Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.83E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441186.476, 3761151.616, 203.01, 3.66, 2.33

\*\* 441133.863, 3761152.910, 202.93, 3.66, 2.33

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LOCATION L0043114	VOLUME	441183.977	3761151.677	203.00
LOCATION L0043115	VOLUME	441178.979	3761151.800	202.96
LOCATION L0043116	VOLUME	441173.980	3761151.923	202.92
LOCATION L0043117	VOLUME	441168.982	3761152.046	202.88
LOCATION L0043118	VOLUME	441163.983	3761152.169	202.84
LOCATION L0043119	VOLUME	441158.985	3761152.292	202.80
LOCATION L0043120	VOLUME	441153.986	3761152.415	202.82
LOCATION L0043121	VOLUME	441148.988	3761152.538	202.85
LOCATION L0043122	VOLUME	441143.989	3761152.661	202.87
LOCATION L0043123	VOLUME	441138.991	3761152.784	202.90
LOCATION L0043124	VOLUME	441133.992	3761152.907	202.92

\*\* End of LINE VOLUME Source ID = SLINE42

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE43

\*\* DESCRSRC PA 3 Driveway - Eucalyptus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.96E-08

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440943.428, 3761267.210, 204.11, 3.66, 2.33

\*\* 440943.697, 3761234.532, 204.08, 3.66, 2.33

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LOCATION L0043125	VOLUME	440943.449	3761264.710	204.09
LOCATION L0043126	VOLUME	440943.490	3761259.710	204.08
LOCATION L0043127	VOLUME	440943.531	3761254.710	204.07
LOCATION L0043128	VOLUME	440943.572	3761249.711	204.06
LOCATION L0043129	VOLUME	440943.613	3761244.711	204.07
LOCATION L0043130	VOLUME	440943.655	3761239.711	204.10
LOCATION L0043131	VOLUME	440943.696	3761234.711	204.13

\*\* End of LINE VOLUME Source ID = SLINE43

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE44

\*\* DESCRSRC PA 3 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.02E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440782.168, 3761145.495, 202.04, 3.66, 2.33

\*\* 440813.786, 3761145.259, 202.21, 3.66, 2.33

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LOCATION L0043132	VOLUME	440784.668	3761145.476	201.87
LOCATION L0043133	VOLUME	440789.668	3761145.439	201.93
LOCATION L0043134	VOLUME	440794.668	3761145.402	201.99
LOCATION L0043135	VOLUME	440799.667	3761145.364	202.04
LOCATION L0043136	VOLUME	440804.667	3761145.327	202.10
LOCATION L0043137	VOLUME	440809.667	3761145.289	202.16

\*\* End of LINE VOLUME Source ID = SLINE44

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE45

\*\* DESCRSRC PA 4 Driveway - Campus Ave

\*\* PREFIX

\*\* Length of Side = 5.00

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\*\* Configuration = Adjacent  
 \*\* Emission Rate = 2.58E-07  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2

\*\* 440782.053, 3760845.530, 199.47, 3.66, 2.33  
 \*\* 440820.788, 3760845.246, 199.74, 3.66, 2.33

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LOCATION	VOLUME	X	Y	Z
L0043138	440784.553	3760845.511	199.50	
L0043139	440789.553	3760845.475	199.53	
L0043140	440794.553	3760845.438	199.56	
L0043141	440799.553	3760845.402	199.60	
L0043142	440804.553	3760845.365	199.63	
L0043143	440809.552	3760845.329	199.65	
L0043144	440814.552	3760845.292	199.68	
L0043145	440819.552	3760845.255	199.71	

\*\* End of LINE VOLUME Source ID = SLINE45

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\*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE46

\*\* DESCRSRC On-site Circulation - Bldgs 4-8 and Bldg 2  
 \*\* PREFIX  
 \*\* Length of Side = 5.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 0.0000107  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2

\*\* 441210.794, 3761143.089, 203.44, 3.66, 2.33  
 \*\* 441990.105, 3761141.604, 204.38, 3.66, 2.33

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LOCATION	VOLUME	X	Y	Z
L0043146	441213.294	3761143.084	203.43	
L0043147	441218.294	3761143.074	203.45	
L0043148	441223.294	3761143.065	203.47	
L0043149	441228.294	3761143.055	203.49	
L0043150	441233.294	3761143.046	203.51	
L0043151	441238.294	3761143.036	203.52	
L0043152	441243.294	3761143.027	203.52	
L0043153	441248.294	3761143.017	203.52	
L0043154	441253.294	3761143.008	203.52	
L0043155	441258.294	3761142.998	203.52	
L0043156	441263.294	3761142.989	203.52	
L0043157	441268.294	3761142.979	203.52	
L0043158	441273.294	3761142.970	203.53	
L0043159	441278.294	3761142.960	203.54	
L0043160	441283.294	3761142.950	203.54	
L0043161	441288.294	3761142.941	203.55	
L0043162	441293.294	3761142.931	203.56	

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LOCATION L0043163	VOLUME	441298.294	3761142.922	203.56
LOCATION L0043164	VOLUME	441303.294	3761142.912	203.57
LOCATION L0043165	VOLUME	441308.294	3761142.903	203.58
LOCATION L0043166	VOLUME	441313.294	3761142.893	203.59
LOCATION L0043167	VOLUME	441318.294	3761142.884	203.59
LOCATION L0043168	VOLUME	441323.294	3761142.874	203.59
LOCATION L0043169	VOLUME	441328.293	3761142.865	203.59
LOCATION L0043170	VOLUME	441333.293	3761142.855	203.60
LOCATION L0043171	VOLUME	441338.293	3761142.846	203.60
LOCATION L0043172	VOLUME	441343.293	3761142.836	203.61
LOCATION L0043173	VOLUME	441348.293	3761142.827	203.62
LOCATION L0043174	VOLUME	441353.293	3761142.817	203.63
LOCATION L0043175	VOLUME	441358.293	3761142.808	203.64
LOCATION L0043176	VOLUME	441363.293	3761142.798	203.65
LOCATION L0043177	VOLUME	441368.293	3761142.789	203.65
LOCATION L0043178	VOLUME	441373.293	3761142.779	203.65
LOCATION L0043179	VOLUME	441378.293	3761142.769	203.65
LOCATION L0043180	VOLUME	441383.293	3761142.760	203.66
LOCATION L0043181	VOLUME	441388.293	3761142.750	203.66
LOCATION L0043182	VOLUME	441393.293	3761142.741	203.65
LOCATION L0043183	VOLUME	441398.293	3761142.731	203.63
LOCATION L0043184	VOLUME	441403.293	3761142.722	203.62
LOCATION L0043185	VOLUME	441408.293	3761142.712	203.60
LOCATION L0043186	VOLUME	441413.293	3761142.703	203.59
LOCATION L0043187	VOLUME	441418.293	3761142.693	203.58
LOCATION L0043188	VOLUME	441423.293	3761142.684	203.59
LOCATION L0043189	VOLUME	441428.293	3761142.674	203.59
LOCATION L0043190	VOLUME	441433.293	3761142.665	203.59
LOCATION L0043191	VOLUME	441438.293	3761142.655	203.60
LOCATION L0043192	VOLUME	441443.293	3761142.646	203.60
LOCATION L0043193	VOLUME	441448.293	3761142.636	203.60
LOCATION L0043194	VOLUME	441453.293	3761142.627	203.61
LOCATION L0043195	VOLUME	441458.293	3761142.617	203.61
LOCATION L0043196	VOLUME	441463.293	3761142.608	203.62
LOCATION L0043197	VOLUME	441468.293	3761142.598	203.62
LOCATION L0043198	VOLUME	441473.293	3761142.589	203.62
LOCATION L0043199	VOLUME	441478.293	3761142.579	203.63
LOCATION L0043200	VOLUME	441483.293	3761142.569	203.63
LOCATION L0043201	VOLUME	441488.293	3761142.560	203.63
LOCATION L0043202	VOLUME	441493.293	3761142.550	203.64
LOCATION L0043203	VOLUME	441498.293	3761142.541	203.64
LOCATION L0043204	VOLUME	441503.293	3761142.531	203.65
LOCATION L0043205	VOLUME	441508.293	3761142.522	203.65
LOCATION L0043206	VOLUME	441513.293	3761142.512	203.65
LOCATION L0043207	VOLUME	441518.293	3761142.503	203.66
LOCATION L0043208	VOLUME	441523.293	3761142.493	203.68
LOCATION L0043209	VOLUME	441528.293	3761142.484	203.69
LOCATION L0043210	VOLUME	441533.293	3761142.474	203.71

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LOCATION L0043211	VOLUME	441538.293	3761142.465	203.72
LOCATION L0043212	VOLUME	441543.293	3761142.455	203.74
LOCATION L0043213	VOLUME	441548.293	3761142.446	203.77
LOCATION L0043214	VOLUME	441553.293	3761142.436	203.81
LOCATION L0043215	VOLUME	441558.293	3761142.427	203.85
LOCATION L0043216	VOLUME	441563.293	3761142.417	203.89
LOCATION L0043217	VOLUME	441568.293	3761142.408	203.92
LOCATION L0043218	VOLUME	441573.293	3761142.398	203.97
LOCATION L0043219	VOLUME	441578.293	3761142.388	204.02
LOCATION L0043220	VOLUME	441583.293	3761142.379	204.07
LOCATION L0043221	VOLUME	441588.293	3761142.369	204.12
LOCATION L0043222	VOLUME	441593.293	3761142.360	204.18
LOCATION L0043223	VOLUME	441598.293	3761142.350	204.24
LOCATION L0043224	VOLUME	441603.293	3761142.341	204.30
LOCATION L0043225	VOLUME	441608.293	3761142.331	204.37
LOCATION L0043226	VOLUME	441613.293	3761142.322	204.43
LOCATION L0043227	VOLUME	441618.293	3761142.312	204.50
LOCATION L0043228	VOLUME	441623.293	3761142.303	204.50
LOCATION L0043229	VOLUME	441628.293	3761142.293	204.46
LOCATION L0043230	VOLUME	441633.293	3761142.284	204.41
LOCATION L0043231	VOLUME	441638.293	3761142.274	204.37
LOCATION L0043232	VOLUME	441643.293	3761142.265	204.32
LOCATION L0043233	VOLUME	441648.293	3761142.255	204.27
LOCATION L0043234	VOLUME	441653.293	3761142.246	204.21
LOCATION L0043235	VOLUME	441658.293	3761142.236	204.16
LOCATION L0043236	VOLUME	441663.293	3761142.227	204.10
LOCATION L0043237	VOLUME	441668.293	3761142.217	204.04
LOCATION L0043238	VOLUME	441673.293	3761142.207	203.98
LOCATION L0043239	VOLUME	441678.293	3761142.198	203.93
LOCATION L0043240	VOLUME	441683.293	3761142.188	203.87
LOCATION L0043241	VOLUME	441688.293	3761142.179	203.81
LOCATION L0043242	VOLUME	441693.293	3761142.169	203.75
LOCATION L0043243	VOLUME	441698.293	3761142.160	203.70
LOCATION L0043244	VOLUME	441703.293	3761142.150	203.75
LOCATION L0043245	VOLUME	441708.293	3761142.141	203.80
LOCATION L0043246	VOLUME	441713.293	3761142.131	203.84
LOCATION L0043247	VOLUME	441718.293	3761142.122	203.89
LOCATION L0043248	VOLUME	441723.293	3761142.112	203.93
LOCATION L0043249	VOLUME	441728.293	3761142.103	204.01
LOCATION L0043250	VOLUME	441733.293	3761142.093	204.09
LOCATION L0043251	VOLUME	441738.293	3761142.084	204.17
LOCATION L0043252	VOLUME	441743.293	3761142.074	204.25
LOCATION L0043253	VOLUME	441748.293	3761142.065	204.33
LOCATION L0043254	VOLUME	441753.293	3761142.055	204.36
LOCATION L0043255	VOLUME	441758.293	3761142.046	204.39
LOCATION L0043256	VOLUME	441763.293	3761142.036	204.42
LOCATION L0043257	VOLUME	441768.293	3761142.026	204.45
LOCATION L0043258	VOLUME	441773.293	3761142.017	204.48

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LOCATION	L0043259	VOLUME	441778.293	3761142.007	204.50
LOCATION	L0043260	VOLUME	441783.293	3761141.998	204.51
LOCATION	L0043261	VOLUME	441788.293	3761141.988	204.53
LOCATION	L0043262	VOLUME	441793.293	3761141.979	204.54
LOCATION	L0043263	VOLUME	441798.293	3761141.969	204.55
LOCATION	L0043264	VOLUME	441803.293	3761141.960	204.53
LOCATION	L0043265	VOLUME	441808.293	3761141.950	204.48
LOCATION	L0043266	VOLUME	441813.293	3761141.941	204.43
LOCATION	L0043267	VOLUME	441818.293	3761141.931	204.39
LOCATION	L0043268	VOLUME	441823.293	3761141.922	204.34
LOCATION	L0043269	VOLUME	441828.293	3761141.912	204.28
LOCATION	L0043270	VOLUME	441833.293	3761141.903	204.21
LOCATION	L0043271	VOLUME	441838.293	3761141.893	204.14
LOCATION	L0043272	VOLUME	441843.293	3761141.884	204.07
LOCATION	L0043273	VOLUME	441848.293	3761141.874	204.00
LOCATION	L0043274	VOLUME	441853.293	3761141.865	203.94
LOCATION	L0043275	VOLUME	441858.293	3761141.855	203.90
LOCATION	L0043276	VOLUME	441863.293	3761141.846	203.85
LOCATION	L0043277	VOLUME	441868.293	3761141.836	203.81
LOCATION	L0043278	VOLUME	441873.293	3761141.826	203.77
LOCATION	L0043279	VOLUME	441878.292	3761141.817	203.75
LOCATION	L0043280	VOLUME	441883.292	3761141.807	203.82
LOCATION	L0043281	VOLUME	441888.292	3761141.798	203.90
LOCATION	L0043282	VOLUME	441893.292	3761141.788	203.97
LOCATION	L0043283	VOLUME	441898.292	3761141.779	204.04
LOCATION	L0043284	VOLUME	441903.292	3761141.769	204.12
LOCATION	L0043285	VOLUME	441908.292	3761141.760	204.23
LOCATION	L0043286	VOLUME	441913.292	3761141.750	204.34
LOCATION	L0043287	VOLUME	441918.292	3761141.741	204.45
LOCATION	L0043288	VOLUME	441923.292	3761141.731	204.56
LOCATION	L0043289	VOLUME	441928.292	3761141.722	204.67
LOCATION	L0043290	VOLUME	441933.292	3761141.712	204.68
LOCATION	L0043291	VOLUME	441938.292	3761141.703	204.69
LOCATION	L0043292	VOLUME	441943.292	3761141.693	204.70
LOCATION	L0043293	VOLUME	441948.292	3761141.684	204.71
LOCATION	L0043294	VOLUME	441953.292	3761141.674	204.72
LOCATION	L0043295	VOLUME	441958.292	3761141.665	204.66
LOCATION	L0043296	VOLUME	441963.292	3761141.655	204.59
LOCATION	L0043297	VOLUME	441968.292	3761141.645	204.51
LOCATION	L0043298	VOLUME	441973.292	3761141.636	204.44
LOCATION	L0043299	VOLUME	441978.292	3761141.626	204.36
LOCATION	L0043300	VOLUME	441983.292	3761141.617	204.34
LOCATION	L0043301	VOLUME	441988.292	3761141.607	204.34

\*\* End of LINE VOLUME Source ID = SLINE46

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE47

\*\* DESCRSRC On-site Circulation - Bldg 1 WEST



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** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.94E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 441236.465, 3761139.362, 203.51, 3.66, 2.33
** 441232.048, 3760579.760, 200.12, 3.66, 2.33
** 441234.134, 3760545.343, 199.82, 3.66, 2.33
** 441245.606, 3760520.313, 198.28, 3.66, 2.33
** 441268.551, 3760504.669, 198.22, 3.66, 2.33
** 441371.695, 3760501.803, 198.54, 3.66, 2.33

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LOCATION L0043302      VOLUME  441236.445 3761136.862 203.48
LOCATION L0043303      VOLUME  441236.406 3761131.862 203.45
LOCATION L0043304      VOLUME  441236.367 3761126.862 203.42
LOCATION L0043305      VOLUME  441236.327 3761121.862 203.39
LOCATION L0043306      VOLUME  441236.288 3761116.862 203.36
LOCATION L0043307      VOLUME  441236.248 3761111.862 203.33
LOCATION L0043308      VOLUME  441236.209 3761106.863 203.30
LOCATION L0043309      VOLUME  441236.169 3761101.863 203.27
LOCATION L0043310      VOLUME  441236.130 3761096.863 203.24
LOCATION L0043311      VOLUME  441236.090 3761091.863 203.21
LOCATION L0043312      VOLUME  441236.051 3761086.863 203.18
LOCATION L0043313      VOLUME  441236.011 3761081.863 203.15
LOCATION L0043314      VOLUME  441235.972 3761076.864 203.13
LOCATION L0043315      VOLUME  441235.932 3761071.864 203.10
LOCATION L0043316      VOLUME  441235.893 3761066.864 203.07
LOCATION L0043317      VOLUME  441235.853 3761061.864 203.04
LOCATION L0043318      VOLUME  441235.814 3761056.864 203.01
LOCATION L0043319      VOLUME  441235.775 3761051.864 202.97
LOCATION L0043320      VOLUME  441235.735 3761046.865 202.94
LOCATION L0043321      VOLUME  441235.696 3761041.865 202.91
LOCATION L0043322      VOLUME  441235.656 3761036.865 202.88
LOCATION L0043323      VOLUME  441235.617 3761031.865 202.84
LOCATION L0043324      VOLUME  441235.577 3761026.865 202.81
LOCATION L0043325      VOLUME  441235.538 3761021.865 202.78
LOCATION L0043326      VOLUME  441235.498 3761016.865 202.75
LOCATION L0043327      VOLUME  441235.459 3761011.866 202.72
LOCATION L0043328      VOLUME  441235.419 3761006.866 202.68
LOCATION L0043329      VOLUME  441235.380 3761001.866 202.65
LOCATION L0043330      VOLUME  441235.340 3760996.866 202.62
LOCATION L0043331      VOLUME  441235.301 3760991.866 202.59
LOCATION L0043332      VOLUME  441235.261 3760986.866 202.56
LOCATION L0043333      VOLUME  441235.222 3760981.867 202.52
LOCATION L0043334      VOLUME  441235.183 3760976.867 202.49
LOCATION L0043335      VOLUME  441235.143 3760971.867 202.46

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LOCATION L0043336	VOLUME	441235.104	3760966.867	202.43
LOCATION L0043337	VOLUME	441235.064	3760961.867	202.39
LOCATION L0043338	VOLUME	441235.025	3760956.867	202.36
LOCATION L0043339	VOLUME	441234.985	3760951.867	202.33
LOCATION L0043340	VOLUME	441234.946	3760946.868	202.30
LOCATION L0043341	VOLUME	441234.906	3760941.868	202.26
LOCATION L0043342	VOLUME	441234.867	3760936.868	202.23
LOCATION L0043343	VOLUME	441234.827	3760931.868	202.20
LOCATION L0043344	VOLUME	441234.788	3760926.868	202.17
LOCATION L0043345	VOLUME	441234.748	3760921.868	202.14
LOCATION L0043346	VOLUME	441234.709	3760916.869	202.11
LOCATION L0043347	VOLUME	441234.670	3760911.869	202.08
LOCATION L0043348	VOLUME	441234.630	3760906.869	202.05
LOCATION L0043349	VOLUME	441234.591	3760901.869	202.02
LOCATION L0043350	VOLUME	441234.551	3760896.869	201.99
LOCATION L0043351	VOLUME	441234.512	3760891.869	201.96
LOCATION L0043352	VOLUME	441234.472	3760886.870	201.93
LOCATION L0043353	VOLUME	441234.433	3760881.870	201.91
LOCATION L0043354	VOLUME	441234.393	3760876.870	201.88
LOCATION L0043355	VOLUME	441234.354	3760871.870	201.85
LOCATION L0043356	VOLUME	441234.314	3760866.870	201.82
LOCATION L0043357	VOLUME	441234.275	3760861.870	201.79
LOCATION L0043358	VOLUME	441234.235	3760856.870	201.76
LOCATION L0043359	VOLUME	441234.196	3760851.871	201.73
LOCATION L0043360	VOLUME	441234.156	3760846.871	201.70
LOCATION L0043361	VOLUME	441234.117	3760841.871	201.67
LOCATION L0043362	VOLUME	441234.078	3760836.871	201.64
LOCATION L0043363	VOLUME	441234.038	3760831.871	201.60
LOCATION L0043364	VOLUME	441233.999	3760826.871	201.57
LOCATION L0043365	VOLUME	441233.959	3760821.872	201.53
LOCATION L0043366	VOLUME	441233.920	3760816.872	201.50
LOCATION L0043367	VOLUME	441233.880	3760811.872	201.47
LOCATION L0043368	VOLUME	441233.841	3760806.872	201.44
LOCATION L0043369	VOLUME	441233.801	3760801.872	201.41
LOCATION L0043370	VOLUME	441233.762	3760796.872	201.38
LOCATION L0043371	VOLUME	441233.722	3760791.872	201.35
LOCATION L0043372	VOLUME	441233.683	3760786.873	201.33
LOCATION L0043373	VOLUME	441233.643	3760781.873	201.30
LOCATION L0043374	VOLUME	441233.604	3760776.873	201.27
LOCATION L0043375	VOLUME	441233.565	3760771.873	201.24
LOCATION L0043376	VOLUME	441233.525	3760766.873	201.20
LOCATION L0043377	VOLUME	441233.486	3760761.873	201.17
LOCATION L0043378	VOLUME	441233.446	3760756.874	201.14
LOCATION L0043379	VOLUME	441233.407	3760751.874	201.11
LOCATION L0043380	VOLUME	441233.367	3760746.874	201.08
LOCATION L0043381	VOLUME	441233.328	3760741.874	201.05
LOCATION L0043382	VOLUME	441233.288	3760736.874	201.01
LOCATION L0043383	VOLUME	441233.249	3760731.874	200.98

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LOCATION L0043384	VOLUME	441233.209	3760726.874	200.95
LOCATION L0043385	VOLUME	441233.170	3760721.875	200.91
LOCATION L0043386	VOLUME	441233.130	3760716.875	200.88
LOCATION L0043387	VOLUME	441233.091	3760711.875	200.85
LOCATION L0043388	VOLUME	441233.051	3760706.875	200.82
LOCATION L0043389	VOLUME	441233.012	3760701.875	200.79
LOCATION L0043390	VOLUME	441232.973	3760696.875	200.76
LOCATION L0043391	VOLUME	441232.933	3760691.876	200.73
LOCATION L0043392	VOLUME	441232.894	3760686.876	200.70
LOCATION L0043393	VOLUME	441232.854	3760681.876	200.67
LOCATION L0043394	VOLUME	441232.815	3760676.876	200.64
LOCATION L0043395	VOLUME	441232.775	3760671.876	200.61
LOCATION L0043396	VOLUME	441232.736	3760666.876	200.58
LOCATION L0043397	VOLUME	441232.696	3760661.877	200.55
LOCATION L0043398	VOLUME	441232.657	3760656.877	200.52
LOCATION L0043399	VOLUME	441232.617	3760651.877	200.49
LOCATION L0043400	VOLUME	441232.578	3760646.877	200.46
LOCATION L0043401	VOLUME	441232.538	3760641.877	200.43
LOCATION L0043402	VOLUME	441232.499	3760636.877	200.40
LOCATION L0043403	VOLUME	441232.460	3760631.877	200.37
LOCATION L0043404	VOLUME	441232.420	3760626.878	200.34
LOCATION L0043405	VOLUME	441232.381	3760621.878	200.31
LOCATION L0043406	VOLUME	441232.341	3760616.878	200.29
LOCATION L0043407	VOLUME	441232.302	3760611.878	200.26
LOCATION L0043408	VOLUME	441232.262	3760606.878	200.23
LOCATION L0043409	VOLUME	441232.223	3760601.878	200.21
LOCATION L0043410	VOLUME	441232.183	3760596.879	200.18
LOCATION L0043411	VOLUME	441232.144	3760591.879	200.16
LOCATION L0043412	VOLUME	441232.104	3760586.879	200.14
LOCATION L0043413	VOLUME	441232.065	3760581.879	200.12
LOCATION L0043414	VOLUME	441232.222	3760576.884	200.10
LOCATION L0043415	VOLUME	441232.525	3760571.894	200.08
LOCATION L0043416	VOLUME	441232.827	3760566.903	200.05
LOCATION L0043417	VOLUME	441233.130	3760561.912	200.03
LOCATION L0043418	VOLUME	441233.432	3760556.921	200.00
LOCATION L0043419	VOLUME	441233.735	3760551.930	199.97
LOCATION L0043420	VOLUME	441234.037	3760546.939	199.94
LOCATION L0043421	VOLUME	441235.551	3760542.251	199.91
LOCATION L0043422	VOLUME	441237.634	3760537.706	199.89
LOCATION L0043423	VOLUME	441239.717	3760533.161	199.69
LOCATION L0043424	VOLUME	441241.801	3760528.616	199.43
LOCATION L0043425	VOLUME	441243.884	3760524.070	199.17
LOCATION L0043426	VOLUME	441246.322	3760519.824	198.93
LOCATION L0043427	VOLUME	441250.453	3760517.008	198.77
LOCATION L0043428	VOLUME	441254.585	3760514.191	198.60
LOCATION L0043429	VOLUME	441258.716	3760511.374	198.44
LOCATION L0043430	VOLUME	441262.847	3760508.558	198.28
LOCATION L0043431	VOLUME	441266.978	3760505.741	198.12

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LOCATION	VOLUME	Source ID	Value 1	Value 2	Value 3
L0043432	441271.646	3760504.583	198.14		
L0043433	441276.644	3760504.444	198.14		
L0043434	441281.642	3760504.305	198.15		
L0043435	441286.640	3760504.166	198.17		
L0043436	441291.638	3760504.027	198.19		
L0043437	441296.636	3760503.889	198.21		
L0043438	441301.634	3760503.750	198.23		
L0043439	441306.633	3760503.611	198.26		
L0043440	441311.631	3760503.472	198.28		
L0043441	441316.629	3760503.333	198.30		
L0043442	441321.627	3760503.194	198.31		
L0043443	441326.625	3760503.055	198.33		
L0043444	441331.623	3760502.917	198.35		
L0043445	441336.621	3760502.778	198.37		
L0043446	441341.619	3760502.639	198.39		
L0043447	441346.617	3760502.500	198.41		
L0043448	441351.615	3760502.361	198.43		
L0043449	441356.613	3760502.222	198.45		
L0043450	441361.611	3760502.084	198.47		
L0043451	441366.609	3760501.945	198.49		
L0043452	441371.607	3760501.806	198.51		

\*\* End of LINE VOLUME Source ID = SLINE47

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE48

\*\* DESCRSRC On-Site Circulation - Bldg 1 EAST

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.21E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 11

\*\* 441373.370, 3760501.936, 198.55, 3.66, 2.33

\*\* 441413.187, 3760501.261, 198.75, 3.66, 2.33

\*\* 441437.929, 3760501.261, 198.79, 3.66, 2.33

\*\* 441457.991, 3760501.261, 198.99, 3.66, 2.33

\*\* 441474.374, 3760501.595, 199.28, 3.66, 2.33

\*\* 441497.445, 3760501.261, 199.62, 3.66, 2.33

\*\* 441506.807, 3760501.261, 199.47, 3.66, 2.33

\*\* 441515.285, 3760503.229, 199.42, 3.66, 2.33

\*\* 441522.931, 3760510.375, 199.48, 3.66, 2.33

\*\* 441529.101, 3760523.517, 199.58, 3.66, 2.33

\*\* 441531.237, 3761139.936, 203.72, 3.66, 2.33

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LOCATION L0043453	VOLUME	441375.869	3760501.893	198.53
LOCATION L0043454	VOLUME	441380.869	3760501.809	198.55
LOCATION L0043455	VOLUME	441385.868	3760501.724	198.57

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LOCATION L0043456	VOLUME	441390.867	3760501.639	198.61
LOCATION L0043457	VOLUME	441395.867	3760501.554	198.66
LOCATION L0043458	VOLUME	441400.866	3760501.470	198.70
LOCATION L0043459	VOLUME	441405.865	3760501.385	198.75
LOCATION L0043460	VOLUME	441410.864	3760501.300	198.79
LOCATION L0043461	VOLUME	441415.864	3760501.261	198.80
LOCATION L0043462	VOLUME	441420.864	3760501.261	198.81
LOCATION L0043463	VOLUME	441425.864	3760501.261	198.82
LOCATION L0043464	VOLUME	441430.864	3760501.261	198.83
LOCATION L0043465	VOLUME	441435.864	3760501.261	198.83
LOCATION L0043466	VOLUME	441440.864	3760501.261	198.86
LOCATION L0043467	VOLUME	441445.864	3760501.261	198.89
LOCATION L0043468	VOLUME	441450.864	3760501.261	198.92
LOCATION L0043469	VOLUME	441455.864	3760501.261	198.95
LOCATION L0043470	VOLUME	441460.863	3760501.319	198.98
LOCATION L0043471	VOLUME	441465.862	3760501.421	199.07
LOCATION L0043472	VOLUME	441470.861	3760501.523	199.21
LOCATION L0043473	VOLUME	441475.861	3760501.574	199.35
LOCATION L0043474	VOLUME	441480.860	3760501.501	199.49
LOCATION L0043475	VOLUME	441485.859	3760501.429	199.63
LOCATION L0043476	VOLUME	441490.859	3760501.356	199.68
LOCATION L0043477	VOLUME	441495.858	3760501.284	199.64
LOCATION L0043478	VOLUME	441500.858	3760501.261	199.59
LOCATION L0043479	VOLUME	441505.858	3760501.261	199.54
LOCATION L0043480	VOLUME	441510.753	3760502.177	199.48
LOCATION L0043481	VOLUME	441515.539	3760503.466	199.44
LOCATION L0043482	VOLUME	441519.192	3760506.880	199.46
LOCATION L0043483	VOLUME	441522.845	3760510.294	199.48
LOCATION L0043484	VOLUME	441525.006	3760514.794	199.50
LOCATION L0043485	VOLUME	441527.131	3760519.320	199.52
LOCATION L0043486	VOLUME	441529.103	3760523.881	199.55
LOCATION L0043487	VOLUME	441529.120	3760528.881	199.55
LOCATION L0043488	VOLUME	441529.137	3760533.881	199.56
LOCATION L0043489	VOLUME	441529.155	3760538.880	199.61
LOCATION L0043490	VOLUME	441529.172	3760543.880	199.68
LOCATION L0043491	VOLUME	441529.189	3760548.880	199.74
LOCATION L0043492	VOLUME	441529.207	3760553.880	199.80
LOCATION L0043493	VOLUME	441529.224	3760558.880	199.86
LOCATION L0043494	VOLUME	441529.241	3760563.880	199.93
LOCATION L0043495	VOLUME	441529.259	3760568.880	199.95
LOCATION L0043496	VOLUME	441529.276	3760573.880	199.94
LOCATION L0043497	VOLUME	441529.293	3760578.880	199.94
LOCATION L0043498	VOLUME	441529.311	3760583.880	199.93
LOCATION L0043499	VOLUME	441529.328	3760588.880	199.93
LOCATION L0043500	VOLUME	441529.345	3760593.880	199.93
LOCATION L0043501	VOLUME	441529.362	3760598.880	199.94
LOCATION L0043502	VOLUME	441529.380	3760603.880	199.98
LOCATION L0043503	VOLUME	441529.397	3760608.880	200.02

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LOCATION L0043504	VOLUME	441529.414	3760613.880	200.06
LOCATION L0043505	VOLUME	441529.432	3760618.880	200.10
LOCATION L0043506	VOLUME	441529.449	3760623.880	200.14
LOCATION L0043507	VOLUME	441529.466	3760628.880	200.19
LOCATION L0043508	VOLUME	441529.484	3760633.880	200.26
LOCATION L0043509	VOLUME	441529.501	3760638.880	200.33
LOCATION L0043510	VOLUME	441529.518	3760643.880	200.40
LOCATION L0043511	VOLUME	441529.536	3760648.880	200.47
LOCATION L0043512	VOLUME	441529.553	3760653.880	200.54
LOCATION L0043513	VOLUME	441529.570	3760658.880	200.60
LOCATION L0043514	VOLUME	441529.588	3760663.880	200.61
LOCATION L0043515	VOLUME	441529.605	3760668.880	200.62
LOCATION L0043516	VOLUME	441529.622	3760673.880	200.64
LOCATION L0043517	VOLUME	441529.640	3760678.880	200.65
LOCATION L0043518	VOLUME	441529.657	3760683.880	200.66
LOCATION L0043519	VOLUME	441529.674	3760688.880	200.68
LOCATION L0043520	VOLUME	441529.692	3760693.880	200.72
LOCATION L0043521	VOLUME	441529.709	3760698.880	200.76
LOCATION L0043522	VOLUME	441529.726	3760703.880	200.79
LOCATION L0043523	VOLUME	441529.744	3760708.879	200.83
LOCATION L0043524	VOLUME	441529.761	3760713.879	200.87
LOCATION L0043525	VOLUME	441529.778	3760718.879	200.91
LOCATION L0043526	VOLUME	441529.796	3760723.879	200.93
LOCATION L0043527	VOLUME	441529.813	3760728.879	200.95
LOCATION L0043528	VOLUME	441529.830	3760733.879	200.96
LOCATION L0043529	VOLUME	441529.848	3760738.879	200.98
LOCATION L0043530	VOLUME	441529.865	3760743.879	200.99
LOCATION L0043531	VOLUME	441529.882	3760748.879	201.01
LOCATION L0043532	VOLUME	441529.900	3760753.879	201.04
LOCATION L0043533	VOLUME	441529.917	3760758.879	201.08
LOCATION L0043534	VOLUME	441529.934	3760763.879	201.13
LOCATION L0043535	VOLUME	441529.952	3760768.879	201.17
LOCATION L0043536	VOLUME	441529.969	3760773.879	201.21
LOCATION L0043537	VOLUME	441529.986	3760778.879	201.25
LOCATION L0043538	VOLUME	441530.004	3760783.879	201.31
LOCATION L0043539	VOLUME	441530.021	3760788.879	201.39
LOCATION L0043540	VOLUME	441530.038	3760793.879	201.47
LOCATION L0043541	VOLUME	441530.055	3760798.879	201.56
LOCATION L0043542	VOLUME	441530.073	3760803.879	201.64
LOCATION L0043543	VOLUME	441530.090	3760808.879	201.72
LOCATION L0043544	VOLUME	441530.107	3760813.879	201.77
LOCATION L0043545	VOLUME	441530.125	3760818.879	201.78
LOCATION L0043546	VOLUME	441530.142	3760823.879	201.78
LOCATION L0043547	VOLUME	441530.159	3760828.879	201.79
LOCATION L0043548	VOLUME	441530.177	3760833.879	201.79
LOCATION L0043549	VOLUME	441530.194	3760838.879	201.79
LOCATION L0043550	VOLUME	441530.211	3760843.879	201.81
LOCATION L0043551	VOLUME	441530.229	3760848.879	201.88

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LOCATION L0043552	VOLUME	441530.246	3760853.879	201.95
LOCATION L0043553	VOLUME	441530.263	3760858.879	202.02
LOCATION L0043554	VOLUME	441530.281	3760863.879	202.08
LOCATION L0043555	VOLUME	441530.298	3760868.879	202.15
LOCATION L0043556	VOLUME	441530.315	3760873.878	202.22
LOCATION L0043557	VOLUME	441530.333	3760878.878	202.21
LOCATION L0043558	VOLUME	441530.350	3760883.878	202.21
LOCATION L0043559	VOLUME	441530.367	3760888.878	202.21
LOCATION L0043560	VOLUME	441530.385	3760893.878	202.21
LOCATION L0043561	VOLUME	441530.402	3760898.878	202.21
LOCATION L0043562	VOLUME	441530.419	3760903.878	202.20
LOCATION L0043563	VOLUME	441530.437	3760908.878	202.22
LOCATION L0043564	VOLUME	441530.454	3760913.878	202.24
LOCATION L0043565	VOLUME	441530.471	3760918.878	202.25
LOCATION L0043566	VOLUME	441530.489	3760923.878	202.27
LOCATION L0043567	VOLUME	441530.506	3760928.878	202.29
LOCATION L0043568	VOLUME	441530.523	3760933.878	202.31
LOCATION L0043569	VOLUME	441530.541	3760938.878	202.33
LOCATION L0043570	VOLUME	441530.558	3760943.878	202.36
LOCATION L0043571	VOLUME	441530.575	3760948.878	202.39
LOCATION L0043572	VOLUME	441530.593	3760953.878	202.41
LOCATION L0043573	VOLUME	441530.610	3760958.878	202.44
LOCATION L0043574	VOLUME	441530.627	3760963.878	202.47
LOCATION L0043575	VOLUME	441530.645	3760968.878	202.50
LOCATION L0043576	VOLUME	441530.662	3760973.878	202.53
LOCATION L0043577	VOLUME	441530.679	3760978.878	202.56
LOCATION L0043578	VOLUME	441530.697	3760983.878	202.59
LOCATION L0043579	VOLUME	441530.714	3760988.878	202.61
LOCATION L0043580	VOLUME	441530.731	3760993.878	202.64
LOCATION L0043581	VOLUME	441530.748	3760998.878	202.67
LOCATION L0043582	VOLUME	441530.766	3761003.878	202.71
LOCATION L0043583	VOLUME	441530.783	3761008.878	202.74
LOCATION L0043584	VOLUME	441530.800	3761013.878	202.77
LOCATION L0043585	VOLUME	441530.818	3761018.878	202.81
LOCATION L0043586	VOLUME	441530.835	3761023.878	202.84
LOCATION L0043587	VOLUME	441530.852	3761028.878	202.87
LOCATION L0043588	VOLUME	441530.870	3761033.878	202.91
LOCATION L0043589	VOLUME	441530.887	3761038.877	202.94
LOCATION L0043590	VOLUME	441530.904	3761043.877	202.97
LOCATION L0043591	VOLUME	441530.922	3761048.877	203.01
LOCATION L0043592	VOLUME	441530.939	3761053.877	203.04
LOCATION L0043593	VOLUME	441530.956	3761058.877	203.08
LOCATION L0043594	VOLUME	441530.974	3761063.877	203.11
LOCATION L0043595	VOLUME	441530.991	3761068.877	203.14
LOCATION L0043596	VOLUME	441531.008	3761073.877	203.18
LOCATION L0043597	VOLUME	441531.026	3761078.877	203.21
LOCATION L0043598	VOLUME	441531.043	3761083.877	203.25
LOCATION L0043599	VOLUME	441531.060	3761088.877	203.28

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LOCATION L0043600	VOLUME	441531.078	3761093.877	203.32
LOCATION L0043601	VOLUME	441531.095	3761098.877	203.36
LOCATION L0043602	VOLUME	441531.112	3761103.877	203.40
LOCATION L0043603	VOLUME	441531.130	3761108.877	203.44
LOCATION L0043604	VOLUME	441531.147	3761113.877	203.48
LOCATION L0043605	VOLUME	441531.164	3761118.877	203.52
LOCATION L0043606	VOLUME	441531.182	3761123.877	203.56
LOCATION L0043607	VOLUME	441531.199	3761128.877	203.60
LOCATION L0043608	VOLUME	441531.216	3761133.877	203.63
LOCATION L0043609	VOLUME	441531.234	3761138.877	203.67

\*\* End of LINE VOLUME Source ID = SLINE48

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE49

\*\* DESCRSRC Idle - Building 4 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.01E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441256.979, 3761193.807, 203.77, 3.66, 1.40

\*\* 441317.884, 3761194.373, 203.83, 3.66, 1.40

\*\*

LOCATION L0043610	VOLUME	441258.479	3761193.821	203.87
LOCATION L0043611	VOLUME	441261.479	3761193.849	203.87
LOCATION L0043612	VOLUME	441264.479	3761193.877	203.88
LOCATION L0043613	VOLUME	441267.479	3761193.905	203.88
LOCATION L0043614	VOLUME	441270.479	3761193.933	203.88
LOCATION L0043615	VOLUME	441273.479	3761193.961	203.88
LOCATION L0043616	VOLUME	441276.479	3761193.989	203.88
LOCATION L0043617	VOLUME	441279.478	3761194.016	203.88
LOCATION L0043618	VOLUME	441282.478	3761194.044	203.88
LOCATION L0043619	VOLUME	441285.478	3761194.072	203.89
LOCATION L0043620	VOLUME	441288.478	3761194.100	203.89
LOCATION L0043621	VOLUME	441291.478	3761194.128	203.89
LOCATION L0043622	VOLUME	441294.478	3761194.156	203.89
LOCATION L0043623	VOLUME	441297.478	3761194.184	203.89
LOCATION L0043624	VOLUME	441300.477	3761194.212	203.89
LOCATION L0043625	VOLUME	441303.477	3761194.239	203.89
LOCATION L0043626	VOLUME	441306.477	3761194.267	203.89
LOCATION L0043627	VOLUME	441309.477	3761194.295	203.89
LOCATION L0043628	VOLUME	441312.477	3761194.323	203.89
LOCATION L0043629	VOLUME	441315.477	3761194.351	203.89

\*\* End of LINE VOLUME Source ID = SLINE49

\*\*

\*\* Line Source Represented by Adjacent Volume Sources



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\*\* LINE VOLUME Source ID = SLINE50  
\*\* DESCRSRC Idle - Building 5 Loading Docks  
\*\* PREFIX  
\*\* Length of Side = 3.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 1.01E-15  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441416.126, 3761195.549, 203.84, 3.66, 1.40  
\*\* 441477.585, 3761195.215, 203.88, 3.66, 1.40

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LOCATION	VOLUME				
L0043630	VOLUME	441417.626	3761195.541	203.92	
L0043631	VOLUME	441420.626	3761195.525	203.93	
L0043632	VOLUME	441423.626	3761195.509	203.93	
L0043633	VOLUME	441426.626	3761195.492	203.93	
L0043634	VOLUME	441429.626	3761195.476	203.93	
L0043635	VOLUME	441432.626	3761195.460	203.93	
L0043636	VOLUME	441435.626	3761195.443	203.94	
L0043637	VOLUME	441438.626	3761195.427	203.94	
L0043638	VOLUME	441441.626	3761195.411	203.94	
L0043639	VOLUME	441444.626	3761195.394	203.94	
L0043640	VOLUME	441447.626	3761195.378	203.94	
L0043641	VOLUME	441450.626	3761195.361	203.95	
L0043642	VOLUME	441453.626	3761195.345	203.95	
L0043643	VOLUME	441456.626	3761195.329	203.95	
L0043644	VOLUME	441459.626	3761195.312	203.95	
L0043645	VOLUME	441462.625	3761195.296	203.95	
L0043646	VOLUME	441465.625	3761195.280	203.95	
L0043647	VOLUME	441468.625	3761195.263	203.96	
L0043648	VOLUME	441471.625	3761195.247	203.96	
L0043649	VOLUME	441474.625	3761195.231	203.97	

\*\* End of LINE VOLUME Source ID = SLINE50

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE51  
\*\* DESCRSRC Idle - Building 6 Loading Docks  
\*\* PREFIX  
\*\* Length of Side = 3.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 1.01E-15  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441552.795, 3761194.592, 204.12, 3.66, 1.40  
\*\* 441618.096, 3761194.927, 204.71, 3.66, 1.40

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LOCATION	VOLUME	441554.295	3761194.600	204.19	
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LOCATION L0043651	VOLUME	441557.295	3761194.615	204.22
LOCATION L0043652	VOLUME	441560.295	3761194.631	204.25
LOCATION L0043653	VOLUME	441563.295	3761194.646	204.28
LOCATION L0043654	VOLUME	441566.295	3761194.661	204.31
LOCATION L0043655	VOLUME	441569.295	3761194.677	204.34
LOCATION L0043656	VOLUME	441572.295	3761194.692	204.36
LOCATION L0043657	VOLUME	441575.294	3761194.708	204.39
LOCATION L0043658	VOLUME	441578.294	3761194.723	204.42
LOCATION L0043659	VOLUME	441581.294	3761194.738	204.45
LOCATION L0043660	VOLUME	441584.294	3761194.754	204.47
LOCATION L0043661	VOLUME	441587.294	3761194.769	204.50
LOCATION L0043662	VOLUME	441590.294	3761194.784	204.53
LOCATION L0043663	VOLUME	441593.294	3761194.800	204.56
LOCATION L0043664	VOLUME	441596.294	3761194.815	204.59
LOCATION L0043665	VOLUME	441599.294	3761194.831	204.61
LOCATION L0043666	VOLUME	441602.294	3761194.846	204.64
LOCATION L0043667	VOLUME	441605.294	3761194.861	204.67
LOCATION L0043668	VOLUME	441608.294	3761194.877	204.70
LOCATION L0043669	VOLUME	441611.294	3761194.892	204.73
LOCATION L0043670	VOLUME	441614.294	3761194.908	204.76
LOCATION L0043671	VOLUME	441617.294	3761194.923	204.79

\*\* End of LINE VOLUME Source ID = SLINE51

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE52

\*\* DESCRSRC Idle - Building 7 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.28E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441706.691, 3761196.147, 204.68, 3.66, 1.40

\*\* 441772.731, 3761196.147, 204.68, 3.66, 1.40

\*\*

LOCATION L0043672	VOLUME	441708.191	3761196.147	204.76
LOCATION L0043673	VOLUME	441711.191	3761196.147	204.77
LOCATION L0043674	VOLUME	441714.191	3761196.147	204.77
LOCATION L0043675	VOLUME	441717.191	3761196.147	204.78
LOCATION L0043676	VOLUME	441720.191	3761196.147	204.79
LOCATION L0043677	VOLUME	441723.191	3761196.147	204.80
LOCATION L0043678	VOLUME	441726.191	3761196.147	204.79
LOCATION L0043679	VOLUME	441729.191	3761196.147	204.77
LOCATION L0043680	VOLUME	441732.191	3761196.147	204.75
LOCATION L0043681	VOLUME	441735.191	3761196.147	204.73
LOCATION L0043682	VOLUME	441738.191	3761196.147	204.71
LOCATION L0043683	VOLUME	441741.191	3761196.147	204.70

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LOCATION L0043684	VOLUME	441744.191	3761196.147	204.68
LOCATION L0043685	VOLUME	441747.191	3761196.147	204.66
LOCATION L0043686	VOLUME	441750.191	3761196.147	204.65
LOCATION L0043687	VOLUME	441753.191	3761196.147	204.67
LOCATION L0043688	VOLUME	441756.191	3761196.147	204.69
LOCATION L0043689	VOLUME	441759.191	3761196.147	204.71
LOCATION L0043690	VOLUME	441762.191	3761196.147	204.73
LOCATION L0043691	VOLUME	441765.191	3761196.147	204.74
LOCATION L0043692	VOLUME	441768.191	3761196.147	204.76
LOCATION L0043693	VOLUME	441771.191	3761196.147	204.78

\*\* End of LINE VOLUME Source ID = SLINE52

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE53

\*\* DESCRSRC Idle - Building 8 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.01E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441877.413, 3761193.808, 204.31, 3.66, 1.40

\*\* 441940.039, 3761194.143, 204.98, 3.66, 1.40

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LOCATION L0043694	VOLUME	441878.913	3761193.816	204.33
LOCATION L0043695	VOLUME	441881.913	3761193.833	204.36
LOCATION L0043696	VOLUME	441884.912	3761193.849	204.39
LOCATION L0043697	VOLUME	441887.912	3761193.865	204.42
LOCATION L0043698	VOLUME	441890.912	3761193.881	204.45
LOCATION L0043699	VOLUME	441893.912	3761193.897	204.48
LOCATION L0043700	VOLUME	441896.912	3761193.913	204.51
LOCATION L0043701	VOLUME	441899.912	3761193.929	204.54
LOCATION L0043702	VOLUME	441902.912	3761193.945	204.57
LOCATION L0043703	VOLUME	441905.912	3761193.961	204.62
LOCATION L0043704	VOLUME	441908.912	3761193.977	204.67
LOCATION L0043705	VOLUME	441911.912	3761193.993	204.72
LOCATION L0043706	VOLUME	441914.912	3761194.009	204.77
LOCATION L0043707	VOLUME	441917.912	3761194.025	204.82
LOCATION L0043708	VOLUME	441920.912	3761194.041	204.87
LOCATION L0043709	VOLUME	441923.912	3761194.057	204.92
LOCATION L0043710	VOLUME	441926.912	3761194.073	204.97
LOCATION L0043711	VOLUME	441929.912	3761194.089	205.02
LOCATION L0043712	VOLUME	441932.912	3761194.105	205.05
LOCATION L0043713	VOLUME	441935.912	3761194.121	205.08
LOCATION L0043714	VOLUME	441938.912	3761194.137	205.11

\*\* End of LINE VOLUME Source ID = SLINE53

\*\*

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\*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE54  
 \*\* DESCRSRC Idle - Building 2 Loading Docks - North  
 \*\* PREFIX  
 \*\* Length of Side = 3.00  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 5.48E-15  
 \*\* Vertical Dimension = 6.22  
 \*\* SZINIT = 2.89  
 \*\* Nodes = 2  
 \*\* 441624.570, 3761087.775, 204.08, 3.66, 1.40  
 \*\* 441912.354, 3761085.999, 203.81, 3.66, 1.40  
 \*\* -----

LOCATION	VOLUME	X	Y	Z
L0043715	441626.070	3761087.766	204.05	
L0043716	441629.070	3761087.748	204.04	
L0043717	441632.070	3761087.729	204.02	
L0043718	441635.070	3761087.711	204.00	
L0043719	441638.070	3761087.692	203.98	
L0043720	441641.070	3761087.674	203.96	
L0043721	441644.070	3761087.655	203.94	
L0043722	441647.070	3761087.637	203.92	
L0043723	441650.070	3761087.618	203.90	
L0043724	441653.070	3761087.600	203.89	
L0043725	441656.070	3761087.581	203.87	
L0043726	441659.070	3761087.563	203.85	
L0043727	441662.070	3761087.544	203.84	
L0043728	441665.070	3761087.525	203.82	
L0043729	441668.070	3761087.507	203.80	
L0043730	441671.070	3761087.488	203.78	
L0043731	441674.070	3761087.470	203.74	
L0043732	441677.069	3761087.451	203.69	
L0043733	441680.069	3761087.433	203.64	
L0043734	441683.069	3761087.414	203.59	
L0043735	441686.069	3761087.396	203.54	
L0043736	441689.069	3761087.377	203.49	
L0043737	441692.069	3761087.359	203.44	
L0043738	441695.069	3761087.340	203.39	
L0043739	441698.069	3761087.322	203.36	
L0043740	441701.069	3761087.303	203.38	
L0043741	441704.069	3761087.285	203.40	
L0043742	441707.069	3761087.266	203.42	
L0043743	441710.069	3761087.248	203.44	
L0043744	441713.069	3761087.229	203.47	
L0043745	441716.069	3761087.211	203.49	
L0043746	441719.069	3761087.192	203.51	
L0043747	441722.069	3761087.174	203.53	
L0043748	441725.069	3761087.155	203.56	
L0043749	441728.068	3761087.137	203.60	

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LOCATION L0043750	VOLUME	441731.068	3761087.118	203.64
LOCATION L0043751	VOLUME	441734.068	3761087.100	203.68
LOCATION L0043752	VOLUME	441737.068	3761087.081	203.72
LOCATION L0043753	VOLUME	441740.068	3761087.063	203.77
LOCATION L0043754	VOLUME	441743.068	3761087.044	203.81
LOCATION L0043755	VOLUME	441746.068	3761087.026	203.85
LOCATION L0043756	VOLUME	441749.068	3761087.007	203.89
LOCATION L0043757	VOLUME	441752.068	3761086.988	203.91
LOCATION L0043758	VOLUME	441755.068	3761086.970	203.94
LOCATION L0043759	VOLUME	441758.068	3761086.951	203.96
LOCATION L0043760	VOLUME	441761.068	3761086.933	203.98
LOCATION L0043761	VOLUME	441764.068	3761086.914	204.01
LOCATION L0043762	VOLUME	441767.068	3761086.896	204.03
LOCATION L0043763	VOLUME	441770.068	3761086.877	204.06
LOCATION L0043764	VOLUME	441773.068	3761086.859	204.08
LOCATION L0043765	VOLUME	441776.068	3761086.840	204.09
LOCATION L0043766	VOLUME	441779.068	3761086.822	204.10
LOCATION L0043767	VOLUME	441782.067	3761086.803	204.10
LOCATION L0043768	VOLUME	441785.067	3761086.785	204.10
LOCATION L0043769	VOLUME	441788.067	3761086.766	204.10
LOCATION L0043770	VOLUME	441791.067	3761086.748	204.11
LOCATION L0043771	VOLUME	441794.067	3761086.729	204.11
LOCATION L0043772	VOLUME	441797.067	3761086.711	204.11
LOCATION L0043773	VOLUME	441800.067	3761086.692	204.11
LOCATION L0043774	VOLUME	441803.067	3761086.674	204.07
LOCATION L0043775	VOLUME	441806.067	3761086.655	204.02
LOCATION L0043776	VOLUME	441809.067	3761086.637	203.98
LOCATION L0043777	VOLUME	441812.067	3761086.618	203.93
LOCATION L0043778	VOLUME	441815.067	3761086.600	203.89
LOCATION L0043779	VOLUME	441818.067	3761086.581	203.85
LOCATION L0043780	VOLUME	441821.067	3761086.563	203.80
LOCATION L0043781	VOLUME	441824.067	3761086.544	203.76
LOCATION L0043782	VOLUME	441827.067	3761086.526	203.71
LOCATION L0043783	VOLUME	441830.067	3761086.507	203.67
LOCATION L0043784	VOLUME	441833.066	3761086.488	203.63
LOCATION L0043785	VOLUME	441836.066	3761086.470	203.58
LOCATION L0043786	VOLUME	441839.066	3761086.451	203.54
LOCATION L0043787	VOLUME	441842.066	3761086.433	203.49
LOCATION L0043788	VOLUME	441845.066	3761086.414	203.45
LOCATION L0043789	VOLUME	441848.066	3761086.396	203.41
LOCATION L0043790	VOLUME	441851.066	3761086.377	203.36
LOCATION L0043791	VOLUME	441854.066	3761086.359	203.35
LOCATION L0043792	VOLUME	441857.066	3761086.340	203.35
LOCATION L0043793	VOLUME	441860.066	3761086.322	203.34
LOCATION L0043794	VOLUME	441863.066	3761086.303	203.33
LOCATION L0043795	VOLUME	441866.066	3761086.285	203.32
LOCATION L0043796	VOLUME	441869.066	3761086.266	203.32
LOCATION L0043797	VOLUME	441872.066	3761086.248	203.31

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LOCATION L0043798	VOLUME	441875.066	3761086.229	203.30
LOCATION L0043799	VOLUME	441878.066	3761086.211	203.32
LOCATION L0043800	VOLUME	441881.066	3761086.192	203.36
LOCATION L0043801	VOLUME	441884.066	3761086.174	203.41
LOCATION L0043802	VOLUME	441887.065	3761086.155	203.46
LOCATION L0043803	VOLUME	441890.065	3761086.137	203.51
LOCATION L0043804	VOLUME	441893.065	3761086.118	203.56
LOCATION L0043805	VOLUME	441896.065	3761086.100	203.60
LOCATION L0043806	VOLUME	441899.065	3761086.081	203.65
LOCATION L0043807	VOLUME	441902.065	3761086.063	203.70
LOCATION L0043808	VOLUME	441905.065	3761086.044	203.76
LOCATION L0043809	VOLUME	441908.065	3761086.026	203.82
LOCATION L0043810	VOLUME	441911.065	3761086.007	203.89

\*\* End of LINE VOLUME Source ID = SLINE54

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE55

\*\* DESCRSRC Idle - Building 2 Loading Docks - South

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.57E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441622.717, 3760908.828, 202.56, 3.66, 1.40

\*\* 441910.733, 3760909.919, 202.76, 3.66, 1.40

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LOCATION L0043811	VOLUME	441624.217	3760908.833	202.58
LOCATION L0043812	VOLUME	441627.217	3760908.845	202.56
LOCATION L0043813	VOLUME	441630.217	3760908.856	202.54
LOCATION L0043814	VOLUME	441633.217	3760908.867	202.52
LOCATION L0043815	VOLUME	441636.217	3760908.879	202.50
LOCATION L0043816	VOLUME	441639.217	3760908.890	202.49
LOCATION L0043817	VOLUME	441642.217	3760908.902	202.47
LOCATION L0043818	VOLUME	441645.217	3760908.913	202.45
LOCATION L0043819	VOLUME	441648.217	3760908.924	202.44
LOCATION L0043820	VOLUME	441651.217	3760908.936	202.44
LOCATION L0043821	VOLUME	441654.217	3760908.947	202.43
LOCATION L0043822	VOLUME	441657.217	3760908.958	202.42
LOCATION L0043823	VOLUME	441660.217	3760908.970	202.41
LOCATION L0043824	VOLUME	441663.217	3760908.981	202.40
LOCATION L0043825	VOLUME	441666.217	3760908.992	202.39
LOCATION L0043826	VOLUME	441669.217	3760909.004	202.39
LOCATION L0043827	VOLUME	441672.217	3760909.015	202.38
LOCATION L0043828	VOLUME	441675.216	3760909.027	202.37
LOCATION L0043829	VOLUME	441678.216	3760909.038	202.36
LOCATION L0043830	VOLUME	441681.216	3760909.049	202.35

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LOCATION L0043831	VOLUME	441684.216	3760909.061	202.33
LOCATION L0043832	VOLUME	441687.216	3760909.072	202.32
LOCATION L0043833	VOLUME	441690.216	3760909.083	202.31
LOCATION L0043834	VOLUME	441693.216	3760909.095	202.30
LOCATION L0043835	VOLUME	441696.216	3760909.106	202.29
LOCATION L0043836	VOLUME	441699.216	3760909.117	202.30
LOCATION L0043837	VOLUME	441702.216	3760909.129	202.30
LOCATION L0043838	VOLUME	441705.216	3760909.140	202.30
LOCATION L0043839	VOLUME	441708.216	3760909.152	202.30
LOCATION L0043840	VOLUME	441711.216	3760909.163	202.31
LOCATION L0043841	VOLUME	441714.216	3760909.174	202.31
LOCATION L0043842	VOLUME	441717.216	3760909.186	202.31
LOCATION L0043843	VOLUME	441720.216	3760909.197	202.32
LOCATION L0043844	VOLUME	441723.216	3760909.208	202.33
LOCATION L0043845	VOLUME	441726.216	3760909.220	202.36
LOCATION L0043846	VOLUME	441729.216	3760909.231	202.38
LOCATION L0043847	VOLUME	441732.216	3760909.242	202.41
LOCATION L0043848	VOLUME	441735.216	3760909.254	202.44
LOCATION L0043849	VOLUME	441738.216	3760909.265	202.46
LOCATION L0043850	VOLUME	441741.216	3760909.277	202.49
LOCATION L0043851	VOLUME	441744.216	3760909.288	202.52
LOCATION L0043852	VOLUME	441747.216	3760909.299	202.54
LOCATION L0043853	VOLUME	441750.216	3760909.311	202.56
LOCATION L0043854	VOLUME	441753.216	3760909.322	202.59
LOCATION L0043855	VOLUME	441756.216	3760909.333	202.61
LOCATION L0043856	VOLUME	441759.216	3760909.345	202.63
LOCATION L0043857	VOLUME	441762.216	3760909.356	202.65
LOCATION L0043858	VOLUME	441765.216	3760909.367	202.67
LOCATION L0043859	VOLUME	441768.216	3760909.379	202.69
LOCATION L0043860	VOLUME	441771.216	3760909.390	202.71
LOCATION L0043861	VOLUME	441774.216	3760909.402	202.73
LOCATION L0043862	VOLUME	441777.216	3760909.413	202.73
LOCATION L0043863	VOLUME	441780.216	3760909.424	202.74
LOCATION L0043864	VOLUME	441783.216	3760909.436	202.74
LOCATION L0043865	VOLUME	441786.216	3760909.447	202.75
LOCATION L0043866	VOLUME	441789.216	3760909.458	202.76
LOCATION L0043867	VOLUME	441792.216	3760909.470	202.76
LOCATION L0043868	VOLUME	441795.216	3760909.481	202.77
LOCATION L0043869	VOLUME	441798.216	3760909.492	202.77
LOCATION L0043870	VOLUME	441801.216	3760909.504	202.75
LOCATION L0043871	VOLUME	441804.216	3760909.515	202.73
LOCATION L0043872	VOLUME	441807.216	3760909.527	202.71
LOCATION L0043873	VOLUME	441810.216	3760909.538	202.69
LOCATION L0043874	VOLUME	441813.216	3760909.549	202.66
LOCATION L0043875	VOLUME	441816.215	3760909.561	202.64
LOCATION L0043876	VOLUME	441819.215	3760909.572	202.62
LOCATION L0043877	VOLUME	441822.215	3760909.583	202.60
LOCATION L0043878	VOLUME	441825.215	3760909.595	202.57

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LOCATION L0043879	VOLUME	441828.215	3760909.606	202.54
LOCATION L0043880	VOLUME	441831.215	3760909.617	202.51
LOCATION L0043881	VOLUME	441834.215	3760909.629	202.47
LOCATION L0043882	VOLUME	441837.215	3760909.640	202.44
LOCATION L0043883	VOLUME	441840.215	3760909.652	202.41
LOCATION L0043884	VOLUME	441843.215	3760909.663	202.38
LOCATION L0043885	VOLUME	441846.215	3760909.674	202.35
LOCATION L0043886	VOLUME	441849.215	3760909.686	202.31
LOCATION L0043887	VOLUME	441852.215	3760909.697	202.31
LOCATION L0043888	VOLUME	441855.215	3760909.708	202.31
LOCATION L0043889	VOLUME	441858.215	3760909.720	202.32
LOCATION L0043890	VOLUME	441861.215	3760909.731	202.32
LOCATION L0043891	VOLUME	441864.215	3760909.742	202.33
LOCATION L0043892	VOLUME	441867.215	3760909.754	202.33
LOCATION L0043893	VOLUME	441870.215	3760909.765	202.34
LOCATION L0043894	VOLUME	441873.215	3760909.777	202.35
LOCATION L0043895	VOLUME	441876.215	3760909.788	202.36
LOCATION L0043896	VOLUME	441879.215	3760909.799	202.40
LOCATION L0043897	VOLUME	441882.215	3760909.811	202.44
LOCATION L0043898	VOLUME	441885.215	3760909.822	202.48
LOCATION L0043899	VOLUME	441888.215	3760909.833	202.52
LOCATION L0043900	VOLUME	441891.215	3760909.845	202.56
LOCATION L0043901	VOLUME	441894.215	3760909.856	202.60
LOCATION L0043902	VOLUME	441897.215	3760909.867	202.64
LOCATION L0043903	VOLUME	441900.215	3760909.879	202.69
LOCATION L0043904	VOLUME	441903.215	3760909.890	202.73
LOCATION L0043905	VOLUME	441906.215	3760909.902	202.78
LOCATION L0043906	VOLUME	441909.215	3760909.913	202.82

\*\* End of LINE VOLUME Source ID = SLINE55

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE56

\*\* DESCRSRC Idle - Building 3 Loading Docks

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 6.59E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441904.376, 3760783.381, 201.74, 3.66, 1.40

\*\* 441611.217, 3760789.599, 201.29, 3.66, 1.40

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LOCATION L0043907	VOLUME	441902.877	3760783.413	201.79
LOCATION L0043908	VOLUME	441899.877	3760783.476	201.76
LOCATION L0043909	VOLUME	441896.878	3760783.540	201.74
LOCATION L0043910	VOLUME	441893.879	3760783.604	201.72
LOCATION L0043911	VOLUME	441890.879	3760783.667	201.70



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LOCATION L0043912	VOLUME	441887.880	3760783.731	201.68
LOCATION L0043913	VOLUME	441884.881	3760783.794	201.66
LOCATION L0043914	VOLUME	441881.881	3760783.858	201.63
LOCATION L0043915	VOLUME	441878.882	3760783.922	201.61
LOCATION L0043916	VOLUME	441875.883	3760783.985	201.59
LOCATION L0043917	VOLUME	441872.883	3760784.049	201.58
LOCATION L0043918	VOLUME	441869.884	3760784.113	201.58
LOCATION L0043919	VOLUME	441866.885	3760784.176	201.57
LOCATION L0043920	VOLUME	441863.885	3760784.240	201.56
LOCATION L0043921	VOLUME	441860.886	3760784.303	201.56
LOCATION L0043922	VOLUME	441857.887	3760784.367	201.55
LOCATION L0043923	VOLUME	441854.887	3760784.431	201.55
LOCATION L0043924	VOLUME	441851.888	3760784.494	201.54
LOCATION L0043925	VOLUME	441848.889	3760784.558	201.53
LOCATION L0043926	VOLUME	441845.889	3760784.622	201.53
LOCATION L0043927	VOLUME	441842.890	3760784.685	201.53
LOCATION L0043928	VOLUME	441839.891	3760784.749	201.53
LOCATION L0043929	VOLUME	441836.892	3760784.812	201.53
LOCATION L0043930	VOLUME	441833.892	3760784.876	201.53
LOCATION L0043931	VOLUME	441830.893	3760784.940	201.53
LOCATION L0043932	VOLUME	441827.894	3760785.003	201.53
LOCATION L0043933	VOLUME	441824.894	3760785.067	201.53
LOCATION L0043934	VOLUME	441821.895	3760785.131	201.52
LOCATION L0043935	VOLUME	441818.896	3760785.194	201.51
LOCATION L0043936	VOLUME	441815.896	3760785.258	201.49
LOCATION L0043937	VOLUME	441812.897	3760785.321	201.48
LOCATION L0043938	VOLUME	441809.898	3760785.385	201.47
LOCATION L0043939	VOLUME	441806.898	3760785.449	201.45
LOCATION L0043940	VOLUME	441803.899	3760785.512	201.44
LOCATION L0043941	VOLUME	441800.900	3760785.576	201.43
LOCATION L0043942	VOLUME	441797.900	3760785.639	201.41
LOCATION L0043943	VOLUME	441794.901	3760785.703	201.43
LOCATION L0043944	VOLUME	441791.902	3760785.767	201.44
LOCATION L0043945	VOLUME	441788.902	3760785.830	201.45
LOCATION L0043946	VOLUME	441785.903	3760785.894	201.46
LOCATION L0043947	VOLUME	441782.904	3760785.958	201.47
LOCATION L0043948	VOLUME	441779.904	3760786.021	201.48
LOCATION L0043949	VOLUME	441776.905	3760786.085	201.50
LOCATION L0043950	VOLUME	441773.906	3760786.148	201.51
LOCATION L0043951	VOLUME	441770.906	3760786.212	201.50
LOCATION L0043952	VOLUME	441767.907	3760786.276	201.49
LOCATION L0043953	VOLUME	441764.908	3760786.339	201.47
LOCATION L0043954	VOLUME	441761.908	3760786.403	201.46
LOCATION L0043955	VOLUME	441758.909	3760786.467	201.44
LOCATION L0043956	VOLUME	441755.910	3760786.530	201.42
LOCATION L0043957	VOLUME	441752.910	3760786.594	201.41
LOCATION L0043958	VOLUME	441749.911	3760786.657	201.39
LOCATION L0043959	VOLUME	441746.912	3760786.721	201.38

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LOCATION L0043960	VOLUME	441743.912	3760786.785	201.38
LOCATION L0043961	VOLUME	441740.913	3760786.848	201.38
LOCATION L0043962	VOLUME	441737.914	3760786.912	201.38
LOCATION L0043963	VOLUME	441734.914	3760786.976	201.38
LOCATION L0043964	VOLUME	441731.915	3760787.039	201.38
LOCATION L0043965	VOLUME	441728.916	3760787.103	201.39
LOCATION L0043966	VOLUME	441725.916	3760787.166	201.39
LOCATION L0043967	VOLUME	441722.917	3760787.230	201.39
LOCATION L0043968	VOLUME	441719.918	3760787.294	201.39
LOCATION L0043969	VOLUME	441716.919	3760787.357	201.38
LOCATION L0043970	VOLUME	441713.919	3760787.421	201.37
LOCATION L0043971	VOLUME	441710.920	3760787.485	201.37
LOCATION L0043972	VOLUME	441707.921	3760787.548	201.36
LOCATION L0043973	VOLUME	441704.921	3760787.612	201.35
LOCATION L0043974	VOLUME	441701.922	3760787.675	201.34
LOCATION L0043975	VOLUME	441698.923	3760787.739	201.33
LOCATION L0043976	VOLUME	441695.923	3760787.803	201.33
LOCATION L0043977	VOLUME	441692.924	3760787.866	201.31
LOCATION L0043978	VOLUME	441689.925	3760787.930	201.30
LOCATION L0043979	VOLUME	441686.925	3760787.993	201.29
LOCATION L0043980	VOLUME	441683.926	3760788.057	201.27
LOCATION L0043981	VOLUME	441680.927	3760788.121	201.26
LOCATION L0043982	VOLUME	441677.927	3760788.184	201.25
LOCATION L0043983	VOLUME	441674.928	3760788.248	201.23
LOCATION L0043984	VOLUME	441671.929	3760788.312	201.22
LOCATION L0043985	VOLUME	441668.929	3760788.375	201.21
LOCATION L0043986	VOLUME	441665.930	3760788.439	201.21
LOCATION L0043987	VOLUME	441662.931	3760788.502	201.21
LOCATION L0043988	VOLUME	441659.931	3760788.566	201.22
LOCATION L0043989	VOLUME	441656.932	3760788.630	201.22
LOCATION L0043990	VOLUME	441653.933	3760788.693	201.22
LOCATION L0043991	VOLUME	441650.933	3760788.757	201.22
LOCATION L0043992	VOLUME	441647.934	3760788.821	201.22
LOCATION L0043993	VOLUME	441644.935	3760788.884	201.22
LOCATION L0043994	VOLUME	441641.935	3760788.948	201.24
LOCATION L0043995	VOLUME	441638.936	3760789.011	201.25
LOCATION L0043996	VOLUME	441635.937	3760789.075	201.26
LOCATION L0043997	VOLUME	441632.937	3760789.139	201.28
LOCATION L0043998	VOLUME	441629.938	3760789.202	201.29
LOCATION L0043999	VOLUME	441626.939	3760789.266	201.31
LOCATION L0044000	VOLUME	441623.939	3760789.330	201.32
LOCATION L0044001	VOLUME	441620.940	3760789.393	201.34
LOCATION L0044002	VOLUME	441617.941	3760789.457	201.35
LOCATION L0044003	VOLUME	441614.941	3760789.520	201.36
LOCATION L0044004	VOLUME	441611.942	3760789.584	201.36

\*\* End of LINE VOLUME Source ID = SLINE56

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\*\* Line Source Represented by Adjacent Volume Sources

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\*\* LINE VOLUME Source ID = SLINE57  
\*\* DESCRSRC Idle - Building 1 Loading Docks - West  
\*\* PREFIX  
\*\* Length of Side = 3.00  
\*\* Configuration = Adjacent  
\*\* Emission Rate = 9.32E-15  
\*\* Vertical Dimension = 6.22  
\*\* SZINIT = 2.89  
\*\* Nodes = 2  
\*\* 441290.629, 3761091.183, 203.21, 3.66, 1.40  
\*\* 441290.629, 3760593.550, 200.22, 3.66, 1.40

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LOCATION	VOLUME	441290.629	3761089.683	203.21
L0044005	VOLUME	441290.629	3761086.683	203.19
L0044006	VOLUME	441290.629	3761083.683	203.17
L0044007	VOLUME	441290.629	3761080.683	203.15
L0044008	VOLUME	441290.629	3761077.683	203.13
L0044009	VOLUME	441290.629	3761074.683	203.11
L0044010	VOLUME	441290.629	3761071.683	203.09
L0044011	VOLUME	441290.629	3761068.683	203.07
L0044012	VOLUME	441290.629	3761065.683	203.05
L0044013	VOLUME	441290.629	3761062.683	203.03
L0044014	VOLUME	441290.629	3761059.683	203.01
L0044015	VOLUME	441290.629	3761056.683	202.99
L0044016	VOLUME	441290.629	3761053.683	202.97
L0044017	VOLUME	441290.629	3761050.683	202.95
L0044018	VOLUME	441290.629	3761047.683	202.93
L0044019	VOLUME	441290.629	3761044.683	202.91
L0044020	VOLUME	441290.629	3761041.683	202.89
L0044021	VOLUME	441290.629	3761038.683	202.87
L0044022	VOLUME	441290.629	3761035.683	202.85
L0044023	VOLUME	441290.629	3761032.683	202.83
L0044024	VOLUME	441290.629	3761029.683	202.81
L0044025	VOLUME	441290.629	3761026.683	202.79
L0044026	VOLUME	441290.629	3761023.683	202.77
L0044027	VOLUME	441290.629	3761020.683	202.75
L0044028	VOLUME	441290.629	3761017.683	202.73
L0044029	VOLUME	441290.629	3761014.683	202.71
L0044030	VOLUME	441290.629	3761011.683	202.69
L0044031	VOLUME	441290.629	3761008.683	202.68
L0044032	VOLUME	441290.629	3761005.683	202.66
L0044033	VOLUME	441290.629	3761002.683	202.64
L0044034	VOLUME	441290.629	3760999.683	202.62
L0044035	VOLUME	441290.629	3760996.683	202.60
L0044036	VOLUME	441290.629	3760993.683	202.58
L0044037	VOLUME	441290.629	3760990.683	202.56
L0044038	VOLUME	441290.629	3760987.683	202.55
L0044039	VOLUME	441290.629	3760984.683	202.53
L0044040	VOLUME	441290.629	3760984.683	202.53

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LOCATION L0044041	VOLUME	441290.629	3760981.683	202.51
LOCATION L0044042	VOLUME	441290.629	3760978.683	202.49
LOCATION L0044043	VOLUME	441290.629	3760975.683	202.47
LOCATION L0044044	VOLUME	441290.629	3760972.683	202.46
LOCATION L0044045	VOLUME	441290.629	3760969.683	202.44
LOCATION L0044046	VOLUME	441290.629	3760966.683	202.42
LOCATION L0044047	VOLUME	441290.629	3760963.683	202.40
LOCATION L0044048	VOLUME	441290.629	3760960.683	202.38
LOCATION L0044049	VOLUME	441290.629	3760957.683	202.37
LOCATION L0044050	VOLUME	441290.629	3760954.683	202.35
LOCATION L0044051	VOLUME	441290.629	3760951.683	202.33
LOCATION L0044052	VOLUME	441290.629	3760948.683	202.31
LOCATION L0044053	VOLUME	441290.629	3760945.683	202.29
LOCATION L0044054	VOLUME	441290.629	3760942.683	202.28
LOCATION L0044055	VOLUME	441290.629	3760939.683	202.26
LOCATION L0044056	VOLUME	441290.629	3760936.683	202.24
LOCATION L0044057	VOLUME	441290.629	3760933.683	202.22
LOCATION L0044058	VOLUME	441290.629	3760930.683	202.20
LOCATION L0044059	VOLUME	441290.629	3760927.683	202.19
LOCATION L0044060	VOLUME	441290.629	3760924.683	202.17
LOCATION L0044061	VOLUME	441290.629	3760921.683	202.15
LOCATION L0044062	VOLUME	441290.629	3760918.683	202.13
LOCATION L0044063	VOLUME	441290.629	3760915.683	202.11
LOCATION L0044064	VOLUME	441290.629	3760912.683	202.10
LOCATION L0044065	VOLUME	441290.629	3760909.683	202.08
LOCATION L0044066	VOLUME	441290.629	3760906.683	202.06
LOCATION L0044067	VOLUME	441290.629	3760903.683	202.04
LOCATION L0044068	VOLUME	441290.629	3760900.683	202.02
LOCATION L0044069	VOLUME	441290.629	3760897.683	202.00
LOCATION L0044070	VOLUME	441290.629	3760894.683	201.98
LOCATION L0044071	VOLUME	441290.629	3760891.683	201.96
LOCATION L0044072	VOLUME	441290.629	3760888.683	201.94
LOCATION L0044073	VOLUME	441290.629	3760885.683	201.92
LOCATION L0044074	VOLUME	441290.629	3760882.683	201.90
LOCATION L0044075	VOLUME	441290.629	3760879.683	201.88
LOCATION L0044076	VOLUME	441290.629	3760876.683	201.86
LOCATION L0044077	VOLUME	441290.629	3760873.683	201.84
LOCATION L0044078	VOLUME	441290.629	3760870.683	201.83
LOCATION L0044079	VOLUME	441290.629	3760867.683	201.81
LOCATION L0044080	VOLUME	441290.629	3760864.683	201.79
LOCATION L0044081	VOLUME	441290.629	3760861.683	201.77
LOCATION L0044082	VOLUME	441290.629	3760858.683	201.75
LOCATION L0044083	VOLUME	441290.629	3760855.683	201.74
LOCATION L0044084	VOLUME	441290.629	3760852.683	201.72
LOCATION L0044085	VOLUME	441290.629	3760849.683	201.70
LOCATION L0044086	VOLUME	441290.629	3760846.683	201.68
LOCATION L0044087	VOLUME	441290.629	3760843.683	201.66
LOCATION L0044088	VOLUME	441290.629	3760840.683	201.64

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LOCATION L0044089	VOLUME	441290.629	3760837.683	201.62
LOCATION L0044090	VOLUME	441290.629	3760834.683	201.60
LOCATION L0044091	VOLUME	441290.629	3760831.683	201.58
LOCATION L0044092	VOLUME	441290.629	3760828.683	201.56
LOCATION L0044093	VOLUME	441290.629	3760825.683	201.54
LOCATION L0044094	VOLUME	441290.629	3760822.683	201.52
LOCATION L0044095	VOLUME	441290.629	3760819.683	201.50
LOCATION L0044096	VOLUME	441290.629	3760816.683	201.48
LOCATION L0044097	VOLUME	441290.629	3760813.683	201.46
LOCATION L0044098	VOLUME	441290.629	3760810.683	201.44
LOCATION L0044099	VOLUME	441290.629	3760807.683	201.42
LOCATION L0044100	VOLUME	441290.629	3760804.683	201.40
LOCATION L0044101	VOLUME	441290.629	3760801.683	201.38
LOCATION L0044102	VOLUME	441290.629	3760798.683	201.36
LOCATION L0044103	VOLUME	441290.629	3760795.683	201.34
LOCATION L0044104	VOLUME	441290.629	3760792.683	201.32
LOCATION L0044105	VOLUME	441290.629	3760789.683	201.30
LOCATION L0044106	VOLUME	441290.629	3760786.683	201.28
LOCATION L0044107	VOLUME	441290.629	3760783.683	201.26
LOCATION L0044108	VOLUME	441290.629	3760780.683	201.25
LOCATION L0044109	VOLUME	441290.629	3760777.683	201.23
LOCATION L0044110	VOLUME	441290.629	3760774.683	201.21
LOCATION L0044111	VOLUME	441290.629	3760771.683	201.19
LOCATION L0044112	VOLUME	441290.629	3760768.683	201.17
LOCATION L0044113	VOLUME	441290.629	3760765.683	201.15
LOCATION L0044114	VOLUME	441290.629	3760762.683	201.13
LOCATION L0044115	VOLUME	441290.629	3760759.683	201.11
LOCATION L0044116	VOLUME	441290.629	3760756.683	201.09
LOCATION L0044117	VOLUME	441290.629	3760753.683	201.07
LOCATION L0044118	VOLUME	441290.629	3760750.683	201.06
LOCATION L0044119	VOLUME	441290.629	3760747.683	201.04
LOCATION L0044120	VOLUME	441290.629	3760744.683	201.02
LOCATION L0044121	VOLUME	441290.629	3760741.683	201.00
LOCATION L0044122	VOLUME	441290.629	3760738.683	200.98
LOCATION L0044123	VOLUME	441290.629	3760735.683	200.96
LOCATION L0044124	VOLUME	441290.629	3760732.683	200.94
LOCATION L0044125	VOLUME	441290.629	3760729.683	200.93
LOCATION L0044126	VOLUME	441290.629	3760726.683	200.91
LOCATION L0044127	VOLUME	441290.629	3760723.683	200.89
LOCATION L0044128	VOLUME	441290.629	3760720.683	200.87
LOCATION L0044129	VOLUME	441290.629	3760717.683	200.85
LOCATION L0044130	VOLUME	441290.629	3760714.683	200.84
LOCATION L0044131	VOLUME	441290.629	3760711.683	200.82
LOCATION L0044132	VOLUME	441290.629	3760708.683	200.80
LOCATION L0044133	VOLUME	441290.629	3760705.683	200.78
LOCATION L0044134	VOLUME	441290.629	3760702.683	200.77
LOCATION L0044135	VOLUME	441290.629	3760699.683	200.75
LOCATION L0044136	VOLUME	441290.629	3760696.683	200.73

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LOCATION L0044137	VOLUME	441290.629	3760693.683	200.72
LOCATION L0044138	VOLUME	441290.629	3760690.683	200.70
LOCATION L0044139	VOLUME	441290.629	3760687.683	200.68
LOCATION L0044140	VOLUME	441290.629	3760684.683	200.66
LOCATION L0044141	VOLUME	441290.629	3760681.683	200.65
LOCATION L0044142	VOLUME	441290.629	3760678.683	200.63
LOCATION L0044143	VOLUME	441290.629	3760675.683	200.61
LOCATION L0044144	VOLUME	441290.629	3760672.683	200.60
LOCATION L0044145	VOLUME	441290.629	3760669.683	200.58
LOCATION L0044146	VOLUME	441290.629	3760666.683	200.56
LOCATION L0044147	VOLUME	441290.629	3760663.683	200.54
LOCATION L0044148	VOLUME	441290.629	3760660.683	200.53
LOCATION L0044149	VOLUME	441290.629	3760657.683	200.51
LOCATION L0044150	VOLUME	441290.629	3760654.683	200.50
LOCATION L0044151	VOLUME	441290.629	3760651.683	200.48
LOCATION L0044152	VOLUME	441290.629	3760648.683	200.47
LOCATION L0044153	VOLUME	441290.629	3760645.683	200.45
LOCATION L0044154	VOLUME	441290.629	3760642.683	200.44
LOCATION L0044155	VOLUME	441290.629	3760639.683	200.42
LOCATION L0044156	VOLUME	441290.629	3760636.683	200.41
LOCATION L0044157	VOLUME	441290.629	3760633.683	200.39
LOCATION L0044158	VOLUME	441290.629	3760630.683	200.38
LOCATION L0044159	VOLUME	441290.629	3760627.683	200.37
LOCATION L0044160	VOLUME	441290.629	3760624.683	200.35
LOCATION L0044161	VOLUME	441290.629	3760621.683	200.34
LOCATION L0044162	VOLUME	441290.629	3760618.683	200.33
LOCATION L0044163	VOLUME	441290.629	3760615.683	200.31
LOCATION L0044164	VOLUME	441290.629	3760612.683	200.30
LOCATION L0044165	VOLUME	441290.629	3760609.683	200.29
LOCATION L0044166	VOLUME	441290.629	3760606.683	200.27
LOCATION L0044167	VOLUME	441290.629	3760603.683	200.26
LOCATION L0044168	VOLUME	441290.629	3760600.683	200.24
LOCATION L0044169	VOLUME	441290.629	3760597.683	200.23
LOCATION L0044170	VOLUME	441290.629	3760594.683	200.22

\*\* End of LINE VOLUME Source ID = SLINE57

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\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE58

\*\* DESCRSRC Idle - Building 1 Loading Docks - East

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.23E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441471.455, 3761092.629, 203.26, 3.66, 1.40

\*\* 441470.008, 3760602.229, 200.16, 3.66, 1.40

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LOCATION L0044171      VOLUME  441471.451 3761091.129 203.28
LOCATION L0044172      VOLUME  441471.442 3761088.129 203.26
LOCATION L0044173      VOLUME  441471.433 3761085.129 203.24
LOCATION L0044174      VOLUME  441471.424 3761082.129 203.22
LOCATION L0044175      VOLUME  441471.415 3761079.129 203.20
LOCATION L0044176      VOLUME  441471.406 3761076.129 203.18
LOCATION L0044177      VOLUME  441471.397 3761073.129 203.15
LOCATION L0044178      VOLUME  441471.389 3761070.129 203.13
LOCATION L0044179      VOLUME  441471.380 3761067.129 203.11
LOCATION L0044180      VOLUME  441471.371 3761064.129 203.09
LOCATION L0044181      VOLUME  441471.362 3761061.129 203.07
LOCATION L0044182      VOLUME  441471.353 3761058.129 203.05
LOCATION L0044183      VOLUME  441471.344 3761055.129 203.03
LOCATION L0044184      VOLUME  441471.335 3761052.129 203.01
LOCATION L0044185      VOLUME  441471.327 3761049.129 202.98
LOCATION L0044186      VOLUME  441471.318 3761046.129 202.96
LOCATION L0044187      VOLUME  441471.309 3761043.129 202.94
LOCATION L0044188      VOLUME  441471.300 3761040.129 202.92
LOCATION L0044189      VOLUME  441471.291 3761037.129 202.90
LOCATION L0044190      VOLUME  441471.282 3761034.129 202.88
LOCATION L0044191      VOLUME  441471.274 3761031.129 202.86
LOCATION L0044192      VOLUME  441471.265 3761028.129 202.84
LOCATION L0044193      VOLUME  441471.256 3761025.129 202.81
LOCATION L0044194      VOLUME  441471.247 3761022.129 202.78
LOCATION L0044195      VOLUME  441471.238 3761019.129 202.75
LOCATION L0044196      VOLUME  441471.229 3761016.129 202.72
LOCATION L0044197      VOLUME  441471.220 3761013.130 202.69
LOCATION L0044198      VOLUME  441471.212 3761010.130 202.66
LOCATION L0044199      VOLUME  441471.203 3761007.130 202.63
LOCATION L0044200      VOLUME  441471.194 3761004.130 202.60
LOCATION L0044201      VOLUME  441471.185 3761001.130 202.58
LOCATION L0044202      VOLUME  441471.176 3760998.130 202.55
LOCATION L0044203      VOLUME  441471.167 3760995.130 202.51
LOCATION L0044204      VOLUME  441471.158 3760992.130 202.48
LOCATION L0044205      VOLUME  441471.150 3760989.130 202.45
LOCATION L0044206      VOLUME  441471.141 3760986.130 202.41
LOCATION L0044207      VOLUME  441471.132 3760983.130 202.38
LOCATION L0044208      VOLUME  441471.123 3760980.130 202.35
LOCATION L0044209      VOLUME  441471.114 3760977.130 202.31
LOCATION L0044210      VOLUME  441471.105 3760974.130 202.28
LOCATION L0044211      VOLUME  441471.097 3760971.130 202.25
LOCATION L0044212      VOLUME  441471.088 3760968.130 202.21
LOCATION L0044213      VOLUME  441471.079 3760965.130 202.19
LOCATION L0044214      VOLUME  441471.070 3760962.130 202.17
LOCATION L0044215      VOLUME  441471.061 3760959.130 202.15
LOCATION L0044216      VOLUME  441471.052 3760956.130 202.14
LOCATION L0044217      VOLUME  441471.043 3760953.130 202.12

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LOCATION L0044218	VOLUME	441471.035	3760950.130	202.11
LOCATION L0044219	VOLUME	441471.026	3760947.130	202.09
LOCATION L0044220	VOLUME	441471.017	3760944.130	202.07
LOCATION L0044221	VOLUME	441471.008	3760941.130	202.06
LOCATION L0044222	VOLUME	441470.999	3760938.130	202.04
LOCATION L0044223	VOLUME	441470.990	3760935.130	202.02
LOCATION L0044224	VOLUME	441470.981	3760932.130	202.02
LOCATION L0044225	VOLUME	441470.973	3760929.130	202.01
LOCATION L0044226	VOLUME	441470.964	3760926.130	202.00
LOCATION L0044227	VOLUME	441470.955	3760923.130	201.99
LOCATION L0044228	VOLUME	441470.946	3760920.130	201.98
LOCATION L0044229	VOLUME	441470.937	3760917.130	201.97
LOCATION L0044230	VOLUME	441470.928	3760914.130	201.96
LOCATION L0044231	VOLUME	441470.920	3760911.130	201.95
LOCATION L0044232	VOLUME	441470.911	3760908.130	201.94
LOCATION L0044233	VOLUME	441470.902	3760905.130	201.93
LOCATION L0044234	VOLUME	441470.893	3760902.130	201.94
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LOCATION L0044236	VOLUME	441470.875	3760896.130	201.97
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LOCATION L0044239	VOLUME	441470.849	3760887.130	202.02
LOCATION L0044240	VOLUME	441470.840	3760884.130	202.03
LOCATION L0044241	VOLUME	441470.831	3760881.130	202.05
LOCATION L0044242	VOLUME	441470.822	3760878.130	202.07
LOCATION L0044243	VOLUME	441470.813	3760875.130	202.08
LOCATION L0044244	VOLUME	441470.805	3760872.130	202.08
LOCATION L0044245	VOLUME	441470.796	3760869.130	202.07
LOCATION L0044246	VOLUME	441470.787	3760866.130	202.06
LOCATION L0044247	VOLUME	441470.778	3760863.130	202.05
LOCATION L0044248	VOLUME	441470.769	3760860.130	202.04
LOCATION L0044249	VOLUME	441470.760	3760857.130	202.03
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LOCATION L0044251	VOLUME	441470.743	3760851.130	202.01
LOCATION L0044252	VOLUME	441470.734	3760848.130	202.00
LOCATION L0044253	VOLUME	441470.725	3760845.130	201.99
LOCATION L0044254	VOLUME	441470.716	3760842.130	201.98
LOCATION L0044255	VOLUME	441470.707	3760839.130	201.96
LOCATION L0044256	VOLUME	441470.698	3760836.130	201.94
LOCATION L0044257	VOLUME	441470.689	3760833.130	201.92
LOCATION L0044258	VOLUME	441470.681	3760830.130	201.90
LOCATION L0044259	VOLUME	441470.672	3760827.130	201.88
LOCATION L0044260	VOLUME	441470.663	3760824.130	201.86
LOCATION L0044261	VOLUME	441470.654	3760821.130	201.84
LOCATION L0044262	VOLUME	441470.645	3760818.130	201.82
LOCATION L0044263	VOLUME	441470.636	3760815.130	201.80
LOCATION L0044264	VOLUME	441470.628	3760812.130	201.78
LOCATION L0044265	VOLUME	441470.619	3760809.130	201.73



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LOCATION L0044266	VOLUME	441470.610	3760806.130	201.69
LOCATION L0044267	VOLUME	441470.601	3760803.130	201.64
LOCATION L0044268	VOLUME	441470.592	3760800.130	201.59
LOCATION L0044269	VOLUME	441470.583	3760797.130	201.55
LOCATION L0044270	VOLUME	441470.574	3760794.130	201.50
LOCATION L0044271	VOLUME	441470.566	3760791.130	201.45
LOCATION L0044272	VOLUME	441470.557	3760788.130	201.41
LOCATION L0044273	VOLUME	441470.548	3760785.130	201.36
LOCATION L0044274	VOLUME	441470.539	3760782.131	201.31
LOCATION L0044275	VOLUME	441470.530	3760779.131	201.29
LOCATION L0044276	VOLUME	441470.521	3760776.131	201.26
LOCATION L0044277	VOLUME	441470.512	3760773.131	201.24
LOCATION L0044278	VOLUME	441470.504	3760770.131	201.21
LOCATION L0044279	VOLUME	441470.495	3760767.131	201.19
LOCATION L0044280	VOLUME	441470.486	3760764.131	201.16
LOCATION L0044281	VOLUME	441470.477	3760761.131	201.14
LOCATION L0044282	VOLUME	441470.468	3760758.131	201.12
LOCATION L0044283	VOLUME	441470.459	3760755.131	201.09
LOCATION L0044284	VOLUME	441470.451	3760752.131	201.07
LOCATION L0044285	VOLUME	441470.442	3760749.131	201.05
LOCATION L0044286	VOLUME	441470.433	3760746.131	201.03
LOCATION L0044287	VOLUME	441470.424	3760743.131	201.02
LOCATION L0044288	VOLUME	441470.415	3760740.131	201.00
LOCATION L0044289	VOLUME	441470.406	3760737.131	200.99
LOCATION L0044290	VOLUME	441470.397	3760734.131	200.97
LOCATION L0044291	VOLUME	441470.389	3760731.131	200.96
LOCATION L0044292	VOLUME	441470.380	3760728.131	200.94
LOCATION L0044293	VOLUME	441470.371	3760725.131	200.93
LOCATION L0044294	VOLUME	441470.362	3760722.131	200.91
LOCATION L0044295	VOLUME	441470.353	3760719.131	200.89
LOCATION L0044296	VOLUME	441470.344	3760716.131	200.87
LOCATION L0044297	VOLUME	441470.335	3760713.131	200.85
LOCATION L0044298	VOLUME	441470.327	3760710.131	200.83
LOCATION L0044299	VOLUME	441470.318	3760707.131	200.80
LOCATION L0044300	VOLUME	441470.309	3760704.131	200.78
LOCATION L0044301	VOLUME	441470.300	3760701.131	200.76
LOCATION L0044302	VOLUME	441470.291	3760698.131	200.73
LOCATION L0044303	VOLUME	441470.282	3760695.131	200.71
LOCATION L0044304	VOLUME	441470.274	3760692.131	200.69
LOCATION L0044305	VOLUME	441470.265	3760689.131	200.67
LOCATION L0044306	VOLUME	441470.256	3760686.131	200.66
LOCATION L0044307	VOLUME	441470.247	3760683.131	200.64
LOCATION L0044308	VOLUME	441470.238	3760680.131	200.63
LOCATION L0044309	VOLUME	441470.229	3760677.131	200.62
LOCATION L0044310	VOLUME	441470.220	3760674.131	200.61
LOCATION L0044311	VOLUME	441470.212	3760671.131	200.60
LOCATION L0044312	VOLUME	441470.203	3760668.131	200.59
LOCATION L0044313	VOLUME	441470.194	3760665.131	200.58

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LOCATION L0044314	VOLUME	441470.185	3760662.131	200.57
LOCATION L0044315	VOLUME	441470.176	3760659.131	200.56
LOCATION L0044316	VOLUME	441470.167	3760656.131	200.54
LOCATION L0044317	VOLUME	441470.158	3760653.131	200.52
LOCATION L0044318	VOLUME	441470.150	3760650.131	200.50
LOCATION L0044319	VOLUME	441470.141	3760647.131	200.48
LOCATION L0044320	VOLUME	441470.132	3760644.131	200.46
LOCATION L0044321	VOLUME	441470.123	3760641.131	200.44
LOCATION L0044322	VOLUME	441470.114	3760638.131	200.42
LOCATION L0044323	VOLUME	441470.105	3760635.131	200.40
LOCATION L0044324	VOLUME	441470.097	3760632.131	200.38
LOCATION L0044325	VOLUME	441470.088	3760629.131	200.35
LOCATION L0044326	VOLUME	441470.079	3760626.131	200.33
LOCATION L0044327	VOLUME	441470.070	3760623.131	200.32
LOCATION L0044328	VOLUME	441470.061	3760620.131	200.30
LOCATION L0044329	VOLUME	441470.052	3760617.131	200.28
LOCATION L0044330	VOLUME	441470.043	3760614.131	200.26
LOCATION L0044331	VOLUME	441470.035	3760611.131	200.24
LOCATION L0044332	VOLUME	441470.026	3760608.131	200.22
LOCATION L0044333	VOLUME	441470.017	3760605.131	200.20

\*\* End of LINE VOLUME Source ID = SLINE58

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 \*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE59

\*\* DESCRSRC Idle - PA 3 - Loading Area

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 7.27E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440856.478, 3761185.898, 202.91, 3.66, 1.40

\*\* 441107.555, 3761186.787, 203.54, 3.66, 1.40

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LOCATION L0044334	VOLUME	440857.978	3761185.904	203.02
LOCATION L0044335	VOLUME	440860.978	3761185.914	203.08
LOCATION L0044336	VOLUME	440863.978	3761185.925	203.14
LOCATION L0044337	VOLUME	440866.978	3761185.936	203.20
LOCATION L0044338	VOLUME	440869.978	3761185.946	203.25
LOCATION L0044339	VOLUME	440872.978	3761185.957	203.31
LOCATION L0044340	VOLUME	440875.978	3761185.967	203.37
LOCATION L0044341	VOLUME	440878.978	3761185.978	203.45
LOCATION L0044342	VOLUME	440881.978	3761185.989	203.54
LOCATION L0044343	VOLUME	440884.978	3761185.999	203.62
LOCATION L0044344	VOLUME	440887.978	3761186.010	203.71
LOCATION L0044345	VOLUME	440890.978	3761186.021	203.80
LOCATION L0044346	VOLUME	440893.978	3761186.031	203.89

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LOCATION L0044347	VOLUME	440896.978	3761186.042	203.97
LOCATION L0044348	VOLUME	440899.978	3761186.052	204.06
LOCATION L0044349	VOLUME	440902.978	3761186.063	204.14
LOCATION L0044350	VOLUME	440905.978	3761186.074	204.19
LOCATION L0044351	VOLUME	440908.978	3761186.084	204.23
LOCATION L0044352	VOLUME	440911.978	3761186.095	204.28
LOCATION L0044353	VOLUME	440914.977	3761186.105	204.32
LOCATION L0044354	VOLUME	440917.977	3761186.116	204.37
LOCATION L0044355	VOLUME	440920.977	3761186.127	204.41
LOCATION L0044356	VOLUME	440923.977	3761186.137	204.46
LOCATION L0044357	VOLUME	440926.977	3761186.148	204.50
LOCATION L0044358	VOLUME	440929.977	3761186.159	204.53
LOCATION L0044359	VOLUME	440932.977	3761186.169	204.55
LOCATION L0044360	VOLUME	440935.977	3761186.180	204.57
LOCATION L0044361	VOLUME	440938.977	3761186.190	204.58
LOCATION L0044362	VOLUME	440941.977	3761186.201	204.60
LOCATION L0044363	VOLUME	440944.977	3761186.212	204.62
LOCATION L0044364	VOLUME	440947.977	3761186.222	204.63
LOCATION L0044365	VOLUME	440950.977	3761186.233	204.65
LOCATION L0044366	VOLUME	440953.977	3761186.243	204.67
LOCATION L0044367	VOLUME	440956.977	3761186.254	204.61
LOCATION L0044368	VOLUME	440959.977	3761186.265	204.56
LOCATION L0044369	VOLUME	440962.977	3761186.275	204.51
LOCATION L0044370	VOLUME	440965.977	3761186.286	204.45
LOCATION L0044371	VOLUME	440968.977	3761186.297	204.40
LOCATION L0044372	VOLUME	440971.977	3761186.307	204.35
LOCATION L0044373	VOLUME	440974.977	3761186.318	204.30
LOCATION L0044374	VOLUME	440977.977	3761186.328	204.24
LOCATION L0044375	VOLUME	440980.977	3761186.339	204.17
LOCATION L0044376	VOLUME	440983.977	3761186.350	204.08
LOCATION L0044377	VOLUME	440986.977	3761186.360	203.99
LOCATION L0044378	VOLUME	440989.977	3761186.371	203.90
LOCATION L0044379	VOLUME	440992.977	3761186.381	203.80
LOCATION L0044380	VOLUME	440995.977	3761186.392	203.71
LOCATION L0044381	VOLUME	440998.977	3761186.403	203.62
LOCATION L0044382	VOLUME	441001.977	3761186.413	203.53
LOCATION L0044383	VOLUME	441004.977	3761186.424	203.44
LOCATION L0044384	VOLUME	441007.977	3761186.435	203.42
LOCATION L0044385	VOLUME	441010.977	3761186.445	203.41
LOCATION L0044386	VOLUME	441013.977	3761186.456	203.40
LOCATION L0044387	VOLUME	441016.977	3761186.466	203.38
LOCATION L0044388	VOLUME	441019.977	3761186.477	203.37
LOCATION L0044389	VOLUME	441022.977	3761186.488	203.36
LOCATION L0044390	VOLUME	441025.977	3761186.498	203.35
LOCATION L0044391	VOLUME	441028.977	3761186.509	203.34
LOCATION L0044392	VOLUME	441031.977	3761186.519	203.34
LOCATION L0044393	VOLUME	441034.977	3761186.530	203.37
LOCATION L0044394	VOLUME	441037.977	3761186.541	203.40

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LOCATION L0044395	VOLUME	441040.977	3761186.551	203.42
LOCATION L0044396	VOLUME	441043.977	3761186.562	203.45
LOCATION L0044397	VOLUME	441046.977	3761186.573	203.48
LOCATION L0044398	VOLUME	441049.977	3761186.583	203.51
LOCATION L0044399	VOLUME	441052.977	3761186.594	203.53
LOCATION L0044400	VOLUME	441055.977	3761186.604	203.56
LOCATION L0044401	VOLUME	441058.977	3761186.615	203.59
LOCATION L0044402	VOLUME	441061.977	3761186.626	203.61
LOCATION L0044403	VOLUME	441064.977	3761186.636	203.64
LOCATION L0044404	VOLUME	441067.977	3761186.647	203.67
LOCATION L0044405	VOLUME	441070.977	3761186.657	203.69
LOCATION L0044406	VOLUME	441073.976	3761186.668	203.72
LOCATION L0044407	VOLUME	441076.976	3761186.679	203.75
LOCATION L0044408	VOLUME	441079.976	3761186.689	203.77
LOCATION L0044409	VOLUME	441082.976	3761186.700	203.78
LOCATION L0044410	VOLUME	441085.976	3761186.711	203.75
LOCATION L0044411	VOLUME	441088.976	3761186.721	203.72
LOCATION L0044412	VOLUME	441091.976	3761186.732	203.69
LOCATION L0044413	VOLUME	441094.976	3761186.742	203.66
LOCATION L0044414	VOLUME	441097.976	3761186.753	203.63
LOCATION L0044415	VOLUME	441100.976	3761186.764	203.60
LOCATION L0044416	VOLUME	441103.976	3761186.774	203.57
LOCATION L0044417	VOLUME	441106.976	3761186.785	203.54

\*\* End of LINE VOLUME Source ID = SLINE59

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE60

\*\* DESCRSRC Idle - PA 4 - Loading Area 1

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.49E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 440885.116, 3761003.187, 201.61, 3.66, 1.40

\*\* 440885.116, 3760589.383, 198.46, 3.66, 1.40

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LOCATION L0044418	VOLUME	440885.116	3761001.687	201.75
LOCATION L0044419	VOLUME	440885.116	3760998.687	201.71
LOCATION L0044420	VOLUME	440885.116	3760995.687	201.68
LOCATION L0044421	VOLUME	440885.116	3760992.687	201.65
LOCATION L0044422	VOLUME	440885.116	3760989.687	201.61
LOCATION L0044423	VOLUME	440885.116	3760986.687	201.58
LOCATION L0044424	VOLUME	440885.116	3760983.687	201.55
LOCATION L0044425	VOLUME	440885.116	3760980.687	201.51
LOCATION L0044426	VOLUME	440885.116	3760977.687	201.48
LOCATION L0044427	VOLUME	440885.116	3760974.687	201.45

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LOCATION L0044428	VOLUME	440885.116	3760971.687	201.41
LOCATION L0044429	VOLUME	440885.116	3760968.687	201.39
LOCATION L0044430	VOLUME	440885.116	3760965.687	201.38
LOCATION L0044431	VOLUME	440885.116	3760962.687	201.36
LOCATION L0044432	VOLUME	440885.116	3760959.687	201.35
LOCATION L0044433	VOLUME	440885.116	3760956.687	201.34
LOCATION L0044434	VOLUME	440885.116	3760953.687	201.32
LOCATION L0044435	VOLUME	440885.116	3760950.687	201.31
LOCATION L0044436	VOLUME	440885.116	3760947.687	201.30
LOCATION L0044437	VOLUME	440885.116	3760944.687	201.28
LOCATION L0044438	VOLUME	440885.116	3760941.687	201.27
LOCATION L0044439	VOLUME	440885.116	3760938.687	201.25
LOCATION L0044440	VOLUME	440885.116	3760935.687	201.22
LOCATION L0044441	VOLUME	440885.116	3760932.687	201.19
LOCATION L0044442	VOLUME	440885.116	3760929.687	201.16
LOCATION L0044443	VOLUME	440885.116	3760926.687	201.13
LOCATION L0044444	VOLUME	440885.116	3760923.687	201.10
LOCATION L0044445	VOLUME	440885.116	3760920.687	201.07
LOCATION L0044446	VOLUME	440885.116	3760917.687	201.03
LOCATION L0044447	VOLUME	440885.116	3760914.687	201.00
LOCATION L0044448	VOLUME	440885.116	3760911.687	200.97
LOCATION L0044449	VOLUME	440885.116	3760908.687	200.94
LOCATION L0044450	VOLUME	440885.116	3760905.687	200.89
LOCATION L0044451	VOLUME	440885.116	3760902.687	200.83
LOCATION L0044452	VOLUME	440885.116	3760899.687	200.78
LOCATION L0044453	VOLUME	440885.116	3760896.687	200.73
LOCATION L0044454	VOLUME	440885.116	3760893.687	200.67
LOCATION L0044455	VOLUME	440885.116	3760890.687	200.62
LOCATION L0044456	VOLUME	440885.116	3760887.687	200.56
LOCATION L0044457	VOLUME	440885.116	3760884.687	200.51
LOCATION L0044458	VOLUME	440885.116	3760881.687	200.45
LOCATION L0044459	VOLUME	440885.116	3760878.687	200.40
LOCATION L0044460	VOLUME	440885.116	3760875.687	200.28
LOCATION L0044461	VOLUME	440885.116	3760872.687	200.13
LOCATION L0044462	VOLUME	440885.116	3760869.687	199.98
LOCATION L0044463	VOLUME	440885.116	3760866.687	199.83
LOCATION L0044464	VOLUME	440885.116	3760863.687	199.68
LOCATION L0044465	VOLUME	440885.116	3760860.687	199.53
LOCATION L0044466	VOLUME	440885.116	3760857.687	199.37
LOCATION L0044467	VOLUME	440885.116	3760854.687	199.22
LOCATION L0044468	VOLUME	440885.116	3760851.687	199.07
LOCATION L0044469	VOLUME	440885.116	3760848.687	198.92
LOCATION L0044470	VOLUME	440885.116	3760845.687	198.84
LOCATION L0044471	VOLUME	440885.116	3760842.687	198.88
LOCATION L0044472	VOLUME	440885.116	3760839.687	198.93
LOCATION L0044473	VOLUME	440885.116	3760836.687	198.98
LOCATION L0044474	VOLUME	440885.116	3760833.687	199.02
LOCATION L0044475	VOLUME	440885.116	3760830.687	199.07

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LOCATION L0044476	VOLUME	440885.116	3760827.687	199.12
LOCATION L0044477	VOLUME	440885.116	3760824.687	199.16
LOCATION L0044478	VOLUME	440885.116	3760821.687	199.21
LOCATION L0044479	VOLUME	440885.116	3760818.687	199.26
LOCATION L0044480	VOLUME	440885.116	3760815.687	199.30
LOCATION L0044481	VOLUME	440885.116	3760812.687	199.34
LOCATION L0044482	VOLUME	440885.116	3760809.687	199.38
LOCATION L0044483	VOLUME	440885.116	3760806.687	199.42
LOCATION L0044484	VOLUME	440885.116	3760803.687	199.46
LOCATION L0044485	VOLUME	440885.116	3760800.687	199.50
LOCATION L0044486	VOLUME	440885.116	3760797.687	199.55
LOCATION L0044487	VOLUME	440885.116	3760794.687	199.59
LOCATION L0044488	VOLUME	440885.116	3760791.687	199.63
LOCATION L0044489	VOLUME	440885.116	3760788.687	199.67
LOCATION L0044490	VOLUME	440885.116	3760785.687	199.71
LOCATION L0044491	VOLUME	440885.116	3760782.687	199.70
LOCATION L0044492	VOLUME	440885.116	3760779.687	199.68
LOCATION L0044493	VOLUME	440885.116	3760776.687	199.66
LOCATION L0044494	VOLUME	440885.116	3760773.687	199.64
LOCATION L0044495	VOLUME	440885.116	3760770.687	199.62
LOCATION L0044496	VOLUME	440885.116	3760767.687	199.60
LOCATION L0044497	VOLUME	440885.116	3760764.687	199.58
LOCATION L0044498	VOLUME	440885.116	3760761.687	199.56
LOCATION L0044499	VOLUME	440885.116	3760758.687	199.54
LOCATION L0044500	VOLUME	440885.116	3760755.687	199.52
LOCATION L0044501	VOLUME	440885.116	3760752.687	199.50
LOCATION L0044502	VOLUME	440885.116	3760749.687	199.48
LOCATION L0044503	VOLUME	440885.116	3760746.687	199.46
LOCATION L0044504	VOLUME	440885.116	3760743.687	199.44
LOCATION L0044505	VOLUME	440885.116	3760740.687	199.42
LOCATION L0044506	VOLUME	440885.116	3760737.687	199.39
LOCATION L0044507	VOLUME	440885.116	3760734.687	199.37
LOCATION L0044508	VOLUME	440885.116	3760731.687	199.35
LOCATION L0044509	VOLUME	440885.116	3760728.687	199.33
LOCATION L0044510	VOLUME	440885.116	3760725.687	199.31
LOCATION L0044511	VOLUME	440885.116	3760722.687	199.29
LOCATION L0044512	VOLUME	440885.116	3760719.687	199.27
LOCATION L0044513	VOLUME	440885.116	3760716.687	199.25
LOCATION L0044514	VOLUME	440885.116	3760713.687	199.23
LOCATION L0044515	VOLUME	440885.116	3760710.687	199.21
LOCATION L0044516	VOLUME	440885.116	3760707.687	199.19
LOCATION L0044517	VOLUME	440885.116	3760704.687	199.17
LOCATION L0044518	VOLUME	440885.116	3760701.687	199.15
LOCATION L0044519	VOLUME	440885.116	3760698.687	199.13
LOCATION L0044520	VOLUME	440885.116	3760695.687	199.11
LOCATION L0044521	VOLUME	440885.116	3760692.687	199.09
LOCATION L0044522	VOLUME	440885.116	3760689.687	199.07
LOCATION L0044523	VOLUME	440885.116	3760686.687	199.04

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LOCATION L0044524	VOLUME	440885.116	3760683.687	199.02
LOCATION L0044525	VOLUME	440885.116	3760680.687	198.99
LOCATION L0044526	VOLUME	440885.116	3760677.687	198.97
LOCATION L0044527	VOLUME	440885.116	3760674.687	198.95
LOCATION L0044528	VOLUME	440885.116	3760671.687	198.92
LOCATION L0044529	VOLUME	440885.116	3760668.687	198.90
LOCATION L0044530	VOLUME	440885.116	3760665.687	198.87
LOCATION L0044531	VOLUME	440885.116	3760662.687	198.85
LOCATION L0044532	VOLUME	440885.116	3760659.687	198.83
LOCATION L0044533	VOLUME	440885.116	3760656.687	198.80
LOCATION L0044534	VOLUME	440885.116	3760653.687	198.78
LOCATION L0044535	VOLUME	440885.116	3760650.687	198.76
LOCATION L0044536	VOLUME	440885.116	3760647.687	198.74
LOCATION L0044537	VOLUME	440885.116	3760644.687	198.71
LOCATION L0044538	VOLUME	440885.116	3760641.687	198.69
LOCATION L0044539	VOLUME	440885.116	3760638.687	198.67
LOCATION L0044540	VOLUME	440885.116	3760635.687	198.64
LOCATION L0044541	VOLUME	440885.116	3760632.687	198.62
LOCATION L0044542	VOLUME	440885.116	3760629.687	198.60
LOCATION L0044543	VOLUME	440885.116	3760626.687	198.57
LOCATION L0044544	VOLUME	440885.116	3760623.687	198.55
LOCATION L0044545	VOLUME	440885.116	3760620.687	198.53
LOCATION L0044546	VOLUME	440885.116	3760617.687	198.50
LOCATION L0044547	VOLUME	440885.116	3760614.687	198.48
LOCATION L0044548	VOLUME	440885.116	3760611.687	198.45
LOCATION L0044549	VOLUME	440885.116	3760608.687	198.43
LOCATION L0044550	VOLUME	440885.116	3760605.687	198.41
LOCATION L0044551	VOLUME	440885.116	3760602.687	198.38
LOCATION L0044552	VOLUME	440885.116	3760599.687	198.36
LOCATION L0044553	VOLUME	440885.116	3760596.687	198.33
LOCATION L0044554	VOLUME	440885.116	3760593.687	198.31
LOCATION L0044555	VOLUME	440885.116	3760590.687	198.29

\*\* End of LINE VOLUME Source ID = SLINE60

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE61

\*\* DESCRSRC Idle - PA 4 - Loading Area 2

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.49E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441082.803, 3761001.529, 202.23, 3.66, 1.40

\*\* 441080.343, 3760587.051, 199.85, 3.66, 1.40

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LOCATION L0044556	VOLUME	441082.794	3761000.029	202.24
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LOCATION L0044557	VOLUME	441082.776	3760997.029	202.21
LOCATION L0044558	VOLUME	441082.759	3760994.029	202.18
LOCATION L0044559	VOLUME	441082.741	3760991.029	202.15
LOCATION L0044560	VOLUME	441082.723	3760988.029	202.12
LOCATION L0044561	VOLUME	441082.705	3760985.029	202.09
LOCATION L0044562	VOLUME	441082.687	3760982.029	202.06
LOCATION L0044563	VOLUME	441082.670	3760979.029	202.03
LOCATION L0044564	VOLUME	441082.652	3760976.029	202.00
LOCATION L0044565	VOLUME	441082.634	3760973.029	201.97
LOCATION L0044566	VOLUME	441082.616	3760970.030	201.94
LOCATION L0044567	VOLUME	441082.598	3760967.030	201.91
LOCATION L0044568	VOLUME	441082.581	3760964.030	201.88
LOCATION L0044569	VOLUME	441082.563	3760961.030	201.85
LOCATION L0044570	VOLUME	441082.545	3760958.030	201.82
LOCATION L0044571	VOLUME	441082.527	3760955.030	201.79
LOCATION L0044572	VOLUME	441082.509	3760952.030	201.76
LOCATION L0044573	VOLUME	441082.492	3760949.030	201.73
LOCATION L0044574	VOLUME	441082.474	3760946.030	201.70
LOCATION L0044575	VOLUME	441082.456	3760943.030	201.67
LOCATION L0044576	VOLUME	441082.438	3760940.030	201.64
LOCATION L0044577	VOLUME	441082.420	3760937.030	201.61
LOCATION L0044578	VOLUME	441082.402	3760934.030	201.58
LOCATION L0044579	VOLUME	441082.385	3760931.030	201.55
LOCATION L0044580	VOLUME	441082.367	3760928.030	201.52
LOCATION L0044581	VOLUME	441082.349	3760925.030	201.49
LOCATION L0044582	VOLUME	441082.331	3760922.030	201.46
LOCATION L0044583	VOLUME	441082.313	3760919.030	201.43
LOCATION L0044584	VOLUME	441082.296	3760916.030	201.40
LOCATION L0044585	VOLUME	441082.278	3760913.031	201.37
LOCATION L0044586	VOLUME	441082.260	3760910.031	201.34
LOCATION L0044587	VOLUME	441082.242	3760907.031	201.31
LOCATION L0044588	VOLUME	441082.224	3760904.031	201.28
LOCATION L0044589	VOLUME	441082.207	3760901.031	201.26
LOCATION L0044590	VOLUME	441082.189	3760898.031	201.23
LOCATION L0044591	VOLUME	441082.171	3760895.031	201.21
LOCATION L0044592	VOLUME	441082.153	3760892.031	201.18
LOCATION L0044593	VOLUME	441082.135	3760889.031	201.16
LOCATION L0044594	VOLUME	441082.118	3760886.031	201.13
LOCATION L0044595	VOLUME	441082.100	3760883.031	201.11
LOCATION L0044596	VOLUME	441082.082	3760880.031	201.08
LOCATION L0044597	VOLUME	441082.064	3760877.031	201.06
LOCATION L0044598	VOLUME	441082.046	3760874.031	201.06
LOCATION L0044599	VOLUME	441082.029	3760871.031	201.07
LOCATION L0044600	VOLUME	441082.011	3760868.031	201.07
LOCATION L0044601	VOLUME	441081.993	3760865.031	201.08
LOCATION L0044602	VOLUME	441081.975	3760862.031	201.09
LOCATION L0044603	VOLUME	441081.957	3760859.031	201.10
LOCATION L0044604	VOLUME	441081.940	3760856.032	201.10



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LOCATION L0044605	VOLUME	441081.922	3760853.032	201.11
LOCATION L0044606	VOLUME	441081.904	3760850.032	201.12
LOCATION L0044607	VOLUME	441081.886	3760847.032	201.13
LOCATION L0044608	VOLUME	441081.868	3760844.032	201.12
LOCATION L0044609	VOLUME	441081.851	3760841.032	201.11
LOCATION L0044610	VOLUME	441081.833	3760838.032	201.09
LOCATION L0044611	VOLUME	441081.815	3760835.032	201.07
LOCATION L0044612	VOLUME	441081.797	3760832.032	201.06
LOCATION L0044613	VOLUME	441081.779	3760829.032	201.04
LOCATION L0044614	VOLUME	441081.762	3760826.032	201.02
LOCATION L0044615	VOLUME	441081.744	3760823.032	201.01
LOCATION L0044616	VOLUME	441081.726	3760820.032	200.99
LOCATION L0044617	VOLUME	441081.708	3760817.032	200.98
LOCATION L0044618	VOLUME	441081.690	3760814.032	200.96
LOCATION L0044619	VOLUME	441081.673	3760811.032	200.92
LOCATION L0044620	VOLUME	441081.655	3760808.032	200.89
LOCATION L0044621	VOLUME	441081.637	3760805.032	200.86
LOCATION L0044622	VOLUME	441081.619	3760802.032	200.83
LOCATION L0044623	VOLUME	441081.601	3760799.033	200.80
LOCATION L0044624	VOLUME	441081.584	3760796.033	200.77
LOCATION L0044625	VOLUME	441081.566	3760793.033	200.74
LOCATION L0044626	VOLUME	441081.548	3760790.033	200.71
LOCATION L0044627	VOLUME	441081.530	3760787.033	200.68
LOCATION L0044628	VOLUME	441081.512	3760784.033	200.65
LOCATION L0044629	VOLUME	441081.494	3760781.033	200.64
LOCATION L0044630	VOLUME	441081.477	3760778.033	200.63
LOCATION L0044631	VOLUME	441081.459	3760775.033	200.62
LOCATION L0044632	VOLUME	441081.441	3760772.033	200.61
LOCATION L0044633	VOLUME	441081.423	3760769.033	200.60
LOCATION L0044634	VOLUME	441081.405	3760766.033	200.59
LOCATION L0044635	VOLUME	441081.388	3760763.033	200.58
LOCATION L0044636	VOLUME	441081.370	3760760.033	200.57
LOCATION L0044637	VOLUME	441081.352	3760757.033	200.56
LOCATION L0044638	VOLUME	441081.334	3760754.033	200.55
LOCATION L0044639	VOLUME	441081.316	3760751.033	200.54
LOCATION L0044640	VOLUME	441081.299	3760748.033	200.54
LOCATION L0044641	VOLUME	441081.281	3760745.033	200.53
LOCATION L0044642	VOLUME	441081.263	3760742.034	200.53
LOCATION L0044643	VOLUME	441081.245	3760739.034	200.52
LOCATION L0044644	VOLUME	441081.227	3760736.034	200.52
LOCATION L0044645	VOLUME	441081.210	3760733.034	200.51
LOCATION L0044646	VOLUME	441081.192	3760730.034	200.51
LOCATION L0044647	VOLUME	441081.174	3760727.034	200.51
LOCATION L0044648	VOLUME	441081.156	3760724.034	200.50
LOCATION L0044649	VOLUME	441081.138	3760721.034	200.50
LOCATION L0044650	VOLUME	441081.121	3760718.034	200.49
LOCATION L0044651	VOLUME	441081.103	3760715.034	200.49
LOCATION L0044652	VOLUME	441081.085	3760712.034	200.48

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LOCATION L0044653	VOLUME	441081.067	3760709.034	200.48
LOCATION L0044654	VOLUME	441081.049	3760706.034	200.48
LOCATION L0044655	VOLUME	441081.032	3760703.034	200.47
LOCATION L0044656	VOLUME	441081.014	3760700.034	200.47
LOCATION L0044657	VOLUME	441080.996	3760697.034	200.46
LOCATION L0044658	VOLUME	441080.978	3760694.034	200.46
LOCATION L0044659	VOLUME	441080.960	3760691.034	200.45
LOCATION L0044660	VOLUME	441080.943	3760688.034	200.43
LOCATION L0044661	VOLUME	441080.925	3760685.035	200.41
LOCATION L0044662	VOLUME	441080.907	3760682.035	200.39
LOCATION L0044663	VOLUME	441080.889	3760679.035	200.36
LOCATION L0044664	VOLUME	441080.871	3760676.035	200.34
LOCATION L0044665	VOLUME	441080.854	3760673.035	200.32
LOCATION L0044666	VOLUME	441080.836	3760670.035	200.30
LOCATION L0044667	VOLUME	441080.818	3760667.035	200.27
LOCATION L0044668	VOLUME	441080.800	3760664.035	200.25
LOCATION L0044669	VOLUME	441080.782	3760661.035	200.23
LOCATION L0044670	VOLUME	441080.765	3760658.035	200.21
LOCATION L0044671	VOLUME	441080.747	3760655.035	200.20
LOCATION L0044672	VOLUME	441080.729	3760652.035	200.19
LOCATION L0044673	VOLUME	441080.711	3760649.035	200.18
LOCATION L0044674	VOLUME	441080.693	3760646.035	200.16
LOCATION L0044675	VOLUME	441080.676	3760643.035	200.15
LOCATION L0044676	VOLUME	441080.658	3760640.035	200.14
LOCATION L0044677	VOLUME	441080.640	3760637.035	200.12
LOCATION L0044678	VOLUME	441080.622	3760634.035	200.11
LOCATION L0044679	VOLUME	441080.604	3760631.036	200.10
LOCATION L0044680	VOLUME	441080.586	3760628.036	200.08
LOCATION L0044681	VOLUME	441080.569	3760625.036	200.07
LOCATION L0044682	VOLUME	441080.551	3760622.036	200.05
LOCATION L0044683	VOLUME	441080.533	3760619.036	200.03
LOCATION L0044684	VOLUME	441080.515	3760616.036	200.01
LOCATION L0044685	VOLUME	441080.497	3760613.036	199.99
LOCATION L0044686	VOLUME	441080.480	3760610.036	199.98
LOCATION L0044687	VOLUME	441080.462	3760607.036	199.96
LOCATION L0044688	VOLUME	441080.444	3760604.036	199.94
LOCATION L0044689	VOLUME	441080.426	3760601.036	199.92
LOCATION L0044690	VOLUME	441080.408	3760598.036	199.91
LOCATION L0044691	VOLUME	441080.391	3760595.036	199.89
LOCATION L0044692	VOLUME	441080.373	3760592.036	199.87
LOCATION L0044693	VOLUME	441080.355	3760589.036	199.85

\*\* End of LINE VOLUME Source ID = SLINE61

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE62

\*\* DESCRSRC On-site Circulation - PA 3

\*\* PREFIX

\*\* Length of Side = 5.00

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** Configuration = Adjacent
** Emission Rate = 0.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 17
** 440815.901, 3761146.114, 202.24, 3.66, 2.33
** 440807.377, 3761171.981, 202.22, 3.66, 2.33
** 440815.421, 3761208.851, 203.03, 3.66, 2.33
** 440837.878, 3761224.604, 203.09, 3.66, 2.33
** 440883.128, 3761230.972, 203.85, 3.66, 2.33
** 440973.290, 3761232.648, 204.10, 3.66, 2.33
** 441051.052, 3761232.983, 203.73, 3.66, 2.33
** 441105.016, 3761231.978, 203.62, 3.66, 2.33
** 441124.456, 3761225.610, 203.58, 3.66, 2.33
** 441135.182, 3761206.504, 203.23, 3.66, 2.33
** 441134.846, 3761173.322, 203.05, 3.66, 2.33
** 441133.171, 3761153.546, 202.93, 3.66, 2.33
** 441118.423, 3761146.507, 203.41, 3.66, 2.33
** 441015.188, 3761145.837, 203.02, 3.66, 2.33
** 440875.754, 3761145.167, 202.86, 3.66, 2.33
** 440822.460, 3761145.167, 202.29, 3.66, 2.33
** 440814.754, 3761145.180, 202.22, 3.66, 2.33

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LOCATION L0035433    VOLUME  440815.119 3761148.488 202.24
LOCATION L0035434    VOLUME  440813.554 3761153.237 202.27
LOCATION L0035435    VOLUME  440811.989 3761157.986 202.30
LOCATION L0035436    VOLUME  440810.424 3761162.734 202.34
LOCATION L0035437    VOLUME  440808.859 3761167.483 202.38
LOCATION L0035438    VOLUME  440807.434 3761172.239 202.41
LOCATION L0035439    VOLUME  440808.499 3761177.124 202.48
LOCATION L0035440    VOLUME  440809.565 3761182.009 202.54
LOCATION L0035441    VOLUME  440810.631 3761186.895 202.60
LOCATION L0035442    VOLUME  440811.697 3761191.780 202.67
LOCATION L0035443    VOLUME  440812.763 3761196.665 202.73
LOCATION L0035444    VOLUME  440813.829 3761201.550 202.80
LOCATION L0035445    VOLUME  440814.894 3761206.435 202.86
LOCATION L0035446    VOLUME  440817.491 3761210.302 202.93
LOCATION L0035447    VOLUME  440821.584 3761213.173 202.99
LOCATION L0035448    VOLUME  440825.677 3761216.045 203.06
LOCATION L0035449    VOLUME  440829.770 3761218.916 203.12
LOCATION L0035450    VOLUME  440833.864 3761221.788 203.18
LOCATION L0035451    VOLUME  440837.973 3761224.617 203.24
LOCATION L0035452    VOLUME  440842.925 3761225.314 203.28
LOCATION L0035453    VOLUME  440847.876 3761226.011 203.31
LOCATION L0035454    VOLUME  440852.827 3761226.708 203.37
LOCATION L0035455    VOLUME  440857.778 3761227.405 203.47
LOCATION L0035456    VOLUME  440862.729 3761228.102 203.57
LOCATION L0035457    VOLUME  440867.681 3761228.798 203.67

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LOCATION L0035458	VOLUME	440872.632	3761229.495	203.77
LOCATION L0035459	VOLUME	440877.583	3761230.192	203.85
LOCATION L0035460	VOLUME	440882.534	3761230.889	203.89
LOCATION L0035461	VOLUME	440887.528	3761231.054	203.92
LOCATION L0035462	VOLUME	440892.527	3761231.147	203.96
LOCATION L0035463	VOLUME	440897.526	3761231.240	203.99
LOCATION L0035464	VOLUME	440902.525	3761231.333	204.03
LOCATION L0035465	VOLUME	440907.524	3761231.426	204.04
LOCATION L0035466	VOLUME	440912.523	3761231.519	204.05
LOCATION L0035467	VOLUME	440917.523	3761231.612	204.07
LOCATION L0035468	VOLUME	440922.522	3761231.705	204.08
LOCATION L0035469	VOLUME	440927.521	3761231.798	204.09
LOCATION L0035470	VOLUME	440932.520	3761231.890	204.11
LOCATION L0035471	VOLUME	440937.519	3761231.983	204.12
LOCATION L0035472	VOLUME	440942.518	3761232.076	204.14
LOCATION L0035473	VOLUME	440947.517	3761232.169	204.16
LOCATION L0035474	VOLUME	440952.516	3761232.262	204.17
LOCATION L0035475	VOLUME	440957.516	3761232.355	204.16
LOCATION L0035476	VOLUME	440962.515	3761232.448	204.14
LOCATION L0035477	VOLUME	440967.514	3761232.541	204.11
LOCATION L0035478	VOLUME	440972.513	3761232.634	204.09
LOCATION L0035479	VOLUME	440977.513	3761232.666	204.06
LOCATION L0035480	VOLUME	440982.513	3761232.688	204.02
LOCATION L0035481	VOLUME	440987.513	3761232.710	203.97
LOCATION L0035482	VOLUME	440992.513	3761232.731	203.92
LOCATION L0035483	VOLUME	440997.513	3761232.753	203.87
LOCATION L0035484	VOLUME	441002.513	3761232.774	203.82
LOCATION L0035485	VOLUME	441007.513	3761232.796	203.78
LOCATION L0035486	VOLUME	441012.513	3761232.817	203.76
LOCATION L0035487	VOLUME	441017.512	3761232.839	203.74
LOCATION L0035488	VOLUME	441022.512	3761232.860	203.72
LOCATION L0035489	VOLUME	441027.512	3761232.882	203.70
LOCATION L0035490	VOLUME	441032.512	3761232.904	203.69
LOCATION L0035491	VOLUME	441037.512	3761232.925	203.69
LOCATION L0035492	VOLUME	441042.512	3761232.947	203.69
LOCATION L0035493	VOLUME	441047.512	3761232.968	203.68
LOCATION L0035494	VOLUME	441052.512	3761232.956	203.68
LOCATION L0035495	VOLUME	441057.511	3761232.863	203.68
LOCATION L0035496	VOLUME	441062.510	3761232.770	203.69
LOCATION L0035497	VOLUME	441067.509	3761232.677	203.70
LOCATION L0035498	VOLUME	441072.508	3761232.584	203.70
LOCATION L0035499	VOLUME	441077.508	3761232.490	203.71
LOCATION L0035500	VOLUME	441082.507	3761232.397	203.72
LOCATION L0035501	VOLUME	441087.506	3761232.304	203.69
LOCATION L0035502	VOLUME	441092.505	3761232.211	203.66
LOCATION L0035503	VOLUME	441097.504	3761232.118	203.64
LOCATION L0035504	VOLUME	441102.503	3761232.025	203.61
LOCATION L0035505	VOLUME	441107.379	3761231.204	203.58

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LOCATION L0035506	VOLUME	441112.131	3761229.647	203.54
LOCATION L0035507	VOLUME	441116.882	3761228.091	203.50
LOCATION L0035508	VOLUME	441121.634	3761226.534	203.46
LOCATION L0035509	VOLUME	441125.450	3761223.839	203.40
LOCATION L0035510	VOLUME	441127.898	3761219.479	203.33
LOCATION L0035511	VOLUME	441130.345	3761215.119	203.26
LOCATION L0035512	VOLUME	441132.793	3761210.759	203.22
LOCATION L0035513	VOLUME	441135.180	3761206.384	203.19
LOCATION L0035514	VOLUME	441135.130	3761201.384	203.17
LOCATION L0035515	VOLUME	441135.079	3761196.384	203.14
LOCATION L0035516	VOLUME	441135.029	3761191.385	203.11
LOCATION L0035517	VOLUME	441134.978	3761186.385	203.09
LOCATION L0035518	VOLUME	441134.928	3761181.385	203.06
LOCATION L0035519	VOLUME	441134.877	3761176.385	203.04
LOCATION L0035520	VOLUME	441134.683	3761171.393	203.01
LOCATION L0035521	VOLUME	441134.261	3761166.410	202.99
LOCATION L0035522	VOLUME	441133.838	3761161.428	202.97
LOCATION L0035523	VOLUME	441133.416	3761156.446	202.94
LOCATION L0035524	VOLUME	441131.285	3761152.646	202.97
LOCATION L0035525	VOLUME	441126.772	3761150.492	203.05
LOCATION L0035526	VOLUME	441122.260	3761148.339	203.12
LOCATION L0035527	VOLUME	441117.674	3761146.503	203.20
LOCATION L0035528	VOLUME	441112.675	3761146.470	203.30
LOCATION L0035529	VOLUME	441107.675	3761146.438	203.40
LOCATION L0035530	VOLUME	441102.675	3761146.405	203.43
LOCATION L0035531	VOLUME	441097.675	3761146.373	203.46
LOCATION L0035532	VOLUME	441092.675	3761146.340	203.48
LOCATION L0035533	VOLUME	441087.675	3761146.308	203.51
LOCATION L0035534	VOLUME	441082.675	3761146.275	203.54
LOCATION L0035535	VOLUME	441077.675	3761146.243	203.51
LOCATION L0035536	VOLUME	441072.675	3761146.210	203.48
LOCATION L0035537	VOLUME	441067.676	3761146.178	203.44
LOCATION L0035538	VOLUME	441062.676	3761146.145	203.41
LOCATION L0035539	VOLUME	441057.676	3761146.113	203.37
LOCATION L0035540	VOLUME	441052.676	3761146.081	203.31
LOCATION L0035541	VOLUME	441047.676	3761146.048	203.23
LOCATION L0035542	VOLUME	441042.676	3761146.016	203.15
LOCATION L0035543	VOLUME	441037.676	3761145.983	203.07
LOCATION L0035544	VOLUME	441032.676	3761145.951	203.00
LOCATION L0035545	VOLUME	441027.676	3761145.918	202.97
LOCATION L0035546	VOLUME	441022.676	3761145.886	202.97
LOCATION L0035547	VOLUME	441017.677	3761145.853	202.98
LOCATION L0035548	VOLUME	441012.677	3761145.825	202.99
LOCATION L0035549	VOLUME	441007.677	3761145.801	202.99
LOCATION L0035550	VOLUME	441002.677	3761145.777	203.08
LOCATION L0035551	VOLUME	440997.677	3761145.753	203.26
LOCATION L0035552	VOLUME	440992.677	3761145.729	203.45
LOCATION L0035553	VOLUME	440987.677	3761145.705	203.63

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LOCATION L0035554	VOLUME	440982.677	3761145.681	203.82
LOCATION L0035555	VOLUME	440977.677	3761145.657	203.97
LOCATION L0035556	VOLUME	440972.677	3761145.633	204.06
LOCATION L0035557	VOLUME	440967.677	3761145.609	204.15
LOCATION L0035558	VOLUME	440962.677	3761145.585	204.23
LOCATION L0035559	VOLUME	440957.677	3761145.561	204.32
LOCATION L0035560	VOLUME	440952.677	3761145.537	204.39
LOCATION L0035561	VOLUME	440947.677	3761145.513	204.38
LOCATION L0035562	VOLUME	440942.677	3761145.488	204.37
LOCATION L0035563	VOLUME	440937.678	3761145.464	204.36
LOCATION L0035564	VOLUME	440932.678	3761145.440	204.35
LOCATION L0035565	VOLUME	440927.678	3761145.416	204.33
LOCATION L0035566	VOLUME	440922.678	3761145.392	204.23
LOCATION L0035567	VOLUME	440917.678	3761145.368	204.12
LOCATION L0035568	VOLUME	440912.678	3761145.344	204.01
LOCATION L0035569	VOLUME	440907.678	3761145.320	203.90
LOCATION L0035570	VOLUME	440902.678	3761145.296	203.79
LOCATION L0035571	VOLUME	440897.678	3761145.272	203.61
LOCATION L0035572	VOLUME	440892.678	3761145.248	203.42
LOCATION L0035573	VOLUME	440887.678	3761145.224	203.23
LOCATION L0035574	VOLUME	440882.678	3761145.200	203.04
LOCATION L0035575	VOLUME	440877.678	3761145.176	202.85
LOCATION L0035576	VOLUME	440872.678	3761145.167	202.76
LOCATION L0035577	VOLUME	440867.678	3761145.167	202.71
LOCATION L0035578	VOLUME	440862.678	3761145.167	202.65
LOCATION L0035579	VOLUME	440857.678	3761145.167	202.59
LOCATION L0035580	VOLUME	440852.678	3761145.167	202.54
LOCATION L0035581	VOLUME	440847.678	3761145.167	202.49
LOCATION L0035582	VOLUME	440842.678	3761145.167	202.46
LOCATION L0035583	VOLUME	440837.678	3761145.167	202.42
LOCATION L0035584	VOLUME	440832.678	3761145.167	202.38
LOCATION L0035585	VOLUME	440827.678	3761145.167	202.35
LOCATION L0035586	VOLUME	440822.678	3761145.167	202.30
LOCATION L0035587	VOLUME	440817.678	3761145.175	202.24

\*\* End of LINE VOLUME Source ID = SLINE62

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE64

\*\* DESCRSRC Idle - PA 5 - Loading Area

\*\* PREFIX

\*\* Length of Side = 3.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.33E-15

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441654.567, 3760562.471, 200.39, 3.66, 1.40

\*\* 441880.436, 3760562.471, 200.18, 3.66, 1.40

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LOCATION L0044694      VOLUME  441656.067 3760562.471 200.40
LOCATION L0044695      VOLUME  441659.067 3760562.471 200.40
LOCATION L0044696      VOLUME  441662.067 3760562.471 200.40
LOCATION L0044697      VOLUME  441665.067 3760562.471 200.40
LOCATION L0044698      VOLUME  441668.067 3760562.471 200.40
LOCATION L0044699      VOLUME  441671.067 3760562.471 200.41
LOCATION L0044700      VOLUME  441674.067 3760562.471 200.41
LOCATION L0044701      VOLUME  441677.067 3760562.471 200.42
LOCATION L0044702      VOLUME  441680.067 3760562.471 200.43
LOCATION L0044703      VOLUME  441683.067 3760562.471 200.44
LOCATION L0044704      VOLUME  441686.067 3760562.471 200.45
LOCATION L0044705      VOLUME  441689.067 3760562.471 200.45
LOCATION L0044706      VOLUME  441692.067 3760562.471 200.46
LOCATION L0044707      VOLUME  441695.067 3760562.471 200.47
LOCATION L0044708      VOLUME  441698.067 3760562.471 200.47
LOCATION L0044709      VOLUME  441701.067 3760562.471 200.47
LOCATION L0044710      VOLUME  441704.067 3760562.471 200.47
LOCATION L0044711      VOLUME  441707.067 3760562.471 200.47
LOCATION L0044712      VOLUME  441710.067 3760562.471 200.47
LOCATION L0044713      VOLUME  441713.067 3760562.471 200.47
LOCATION L0044714      VOLUME  441716.067 3760562.471 200.47
LOCATION L0044715      VOLUME  441719.067 3760562.471 200.47
LOCATION L0044716      VOLUME  441722.067 3760562.471 200.46
LOCATION L0044717      VOLUME  441725.067 3760562.471 200.46
LOCATION L0044718      VOLUME  441728.067 3760562.471 200.45
LOCATION L0044719      VOLUME  441731.067 3760562.471 200.44
LOCATION L0044720      VOLUME  441734.067 3760562.471 200.43
LOCATION L0044721      VOLUME  441737.067 3760562.471 200.42
LOCATION L0044722      VOLUME  441740.067 3760562.471 200.41
LOCATION L0044723      VOLUME  441743.067 3760562.471 200.40
LOCATION L0044724      VOLUME  441746.067 3760562.471 200.39
LOCATION L0044725      VOLUME  441749.067 3760562.471 200.39
LOCATION L0044726      VOLUME  441752.067 3760562.471 200.38
LOCATION L0044727      VOLUME  441755.067 3760562.471 200.38
LOCATION L0044728      VOLUME  441758.067 3760562.471 200.37
LOCATION L0044729      VOLUME  441761.067 3760562.471 200.37
LOCATION L0044730      VOLUME  441764.067 3760562.471 200.36
LOCATION L0044731      VOLUME  441767.067 3760562.471 200.36
LOCATION L0044732      VOLUME  441770.067 3760562.471 200.35
LOCATION L0044733      VOLUME  441773.067 3760562.471 200.35
LOCATION L0044734      VOLUME  441776.067 3760562.471 200.34
LOCATION L0044735      VOLUME  441779.067 3760562.471 200.33
LOCATION L0044736      VOLUME  441782.067 3760562.471 200.33
LOCATION L0044737      VOLUME  441785.067 3760562.471 200.32
LOCATION L0044738      VOLUME  441788.067 3760562.471 200.31
LOCATION L0044739      VOLUME  441791.067 3760562.471 200.31
LOCATION L0044740      VOLUME  441794.067 3760562.471 200.30

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LOCATION L0044741	VOLUME	441797.067	3760562.471	200.30
LOCATION L0044742	VOLUME	441800.067	3760562.471	200.29
LOCATION L0044743	VOLUME	441803.067	3760562.471	200.28
LOCATION L0044744	VOLUME	441806.067	3760562.471	200.27
LOCATION L0044745	VOLUME	441809.067	3760562.471	200.26
LOCATION L0044746	VOLUME	441812.067	3760562.471	200.25
LOCATION L0044747	VOLUME	441815.067	3760562.471	200.24
LOCATION L0044748	VOLUME	441818.067	3760562.471	200.23
LOCATION L0044749	VOLUME	441821.067	3760562.471	200.22
LOCATION L0044750	VOLUME	441824.067	3760562.471	200.21
LOCATION L0044751	VOLUME	441827.067	3760562.471	200.21
LOCATION L0044752	VOLUME	441830.067	3760562.471	200.20
LOCATION L0044753	VOLUME	441833.067	3760562.471	200.20
LOCATION L0044754	VOLUME	441836.067	3760562.471	200.20
LOCATION L0044755	VOLUME	441839.067	3760562.471	200.20
LOCATION L0044756	VOLUME	441842.067	3760562.471	200.19
LOCATION L0044757	VOLUME	441845.067	3760562.471	200.19
LOCATION L0044758	VOLUME	441848.067	3760562.471	200.19
LOCATION L0044759	VOLUME	441851.067	3760562.471	200.18
LOCATION L0044760	VOLUME	441854.067	3760562.471	200.18
LOCATION L0044761	VOLUME	441857.067	3760562.471	200.18
LOCATION L0044762	VOLUME	441860.067	3760562.471	200.17
LOCATION L0044763	VOLUME	441863.067	3760562.471	200.17
LOCATION L0044764	VOLUME	441866.067	3760562.471	200.17
LOCATION L0044765	VOLUME	441869.067	3760562.471	200.17
LOCATION L0044766	VOLUME	441872.067	3760562.471	200.16
LOCATION L0044767	VOLUME	441875.067	3760562.471	200.16
LOCATION L0044768	VOLUME	441878.067	3760562.471	200.17

\*\* End of LINE VOLUME Source ID = SLINE64

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE65

\*\* DESCRSRC On-site Circulation - PA 5

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.54E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 18

\*\* 441747.999, 3760499.263, 200.02, 3.66, 2.33

\*\* 441818.029, 3760505.031, 199.91, 3.66, 2.33

\*\* 441908.743, 3760515.147, 200.08, 3.66, 2.33

\*\* 441930.976, 3760531.154, 200.24, 3.66, 2.33

\*\* 441936.312, 3760555.165, 200.55, 3.66, 2.33

\*\* 441933.644, 3760588.069, 200.72, 3.66, 2.33

\*\* 441916.747, 3760606.745, 200.80, 3.66, 2.33

\*\* 441890.068, 3760617.417, 201.01, 3.66, 2.33



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\*\* 441839.378, 3760622.752, 201.07, 3.66, 2.33  
 \*\* 441754.004, 3760620.974, 201.05, 3.66, 2.33  
 \*\* 441665.963, 3760619.195, 200.91, 3.66, 2.33  
 \*\* 441615.273, 3760608.523, 200.64, 3.66, 2.33  
 \*\* 441601.044, 3760581.844, 200.44, 3.66, 2.33  
 \*\* 441596.597, 3760554.276, 200.15, 3.66, 2.33  
 \*\* 441605.491, 3760530.265, 200.05, 3.66, 2.33  
 \*\* 441629.502, 3760514.257, 200.19, 3.66, 2.33  
 \*\* 441671.299, 3760500.918, 200.12, 3.66, 2.33  
 \*\* 441744.735, 3760499.598, 200.01, 3.66, 2.33

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LOCATION	L0044769	VOLUME	441750.490	3760499.469	200.02
LOCATION	L0044770	VOLUME	441755.473	3760499.879	200.02
LOCATION	L0044771	VOLUME	441760.456	3760500.289	200.02
LOCATION	L0044772	VOLUME	441765.440	3760500.700	200.02
LOCATION	L0044773	VOLUME	441770.423	3760501.110	200.02
LOCATION	L0044774	VOLUME	441775.406	3760501.521	200.01
LOCATION	L0044775	VOLUME	441780.389	3760501.931	200.01
LOCATION	L0044776	VOLUME	441785.372	3760502.341	200.01
LOCATION	L0044777	VOLUME	441790.355	3760502.752	200.01
LOCATION	L0044778	VOLUME	441795.338	3760503.162	200.01
LOCATION	L0044779	VOLUME	441800.321	3760503.572	199.99
LOCATION	L0044780	VOLUME	441805.305	3760503.983	199.97
LOCATION	L0044781	VOLUME	441810.288	3760504.393	199.96
LOCATION	L0044782	VOLUME	441815.271	3760504.804	199.94
LOCATION	L0044783	VOLUME	441820.248	3760505.278	199.92
LOCATION	L0044784	VOLUME	441825.217	3760505.832	199.91
LOCATION	L0044785	VOLUME	441830.186	3760506.386	199.91
LOCATION	L0044786	VOLUME	441835.155	3760506.940	199.92
LOCATION	L0044787	VOLUME	441840.125	3760507.495	199.92
LOCATION	L0044788	VOLUME	441845.094	3760508.049	199.92
LOCATION	L0044789	VOLUME	441850.063	3760508.603	199.92
LOCATION	L0044790	VOLUME	441855.032	3760509.157	199.93
LOCATION	L0044791	VOLUME	441860.001	3760509.711	199.93
LOCATION	L0044792	VOLUME	441864.971	3760510.265	199.94
LOCATION	L0044793	VOLUME	441869.940	3760510.819	199.94
LOCATION	L0044794	VOLUME	441874.909	3760511.374	199.95
LOCATION	L0044795	VOLUME	441879.878	3760511.928	199.95
LOCATION	L0044796	VOLUME	441884.847	3760512.482	199.96
LOCATION	L0044797	VOLUME	441889.817	3760513.036	199.97
LOCATION	L0044798	VOLUME	441894.786	3760513.590	199.98
LOCATION	L0044799	VOLUME	441899.755	3760514.144	199.99
LOCATION	L0044800	VOLUME	441904.724	3760514.698	200.02
LOCATION	L0044801	VOLUME	441909.519	3760515.705	200.05
LOCATION	L0044802	VOLUME	441913.577	3760518.627	200.08
LOCATION	L0044803	VOLUME	441917.634	3760521.548	200.12
LOCATION	L0044804	VOLUME	441921.692	3760524.470	200.15
LOCATION	L0044805	VOLUME	441925.750	3760527.391	200.19

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LOCATION L0044806	VOLUME	441929.807	3760530.313	200.25
LOCATION L0044807	VOLUME	441931.748	3760534.629	200.29
LOCATION L0044808	VOLUME	441932.833	3760539.510	200.34
LOCATION L0044809	VOLUME	441933.918	3760544.391	200.38
LOCATION L0044810	VOLUME	441935.002	3760549.272	200.43
LOCATION L0044811	VOLUME	441936.087	3760554.153	200.47
LOCATION L0044812	VOLUME	441935.992	3760559.115	200.50
LOCATION L0044813	VOLUME	441935.587	3760564.099	200.53
LOCATION L0044814	VOLUME	441935.183	3760569.083	200.57
LOCATION L0044815	VOLUME	441934.779	3760574.066	200.60
LOCATION L0044816	VOLUME	441934.375	3760579.050	200.63
LOCATION L0044817	VOLUME	441933.971	3760584.034	200.67
LOCATION L0044818	VOLUME	441933.006	3760588.775	200.70
LOCATION L0044819	VOLUME	441929.651	3760592.482	200.71
LOCATION L0044820	VOLUME	441926.297	3760596.190	200.74
LOCATION L0044821	VOLUME	441922.942	3760599.898	200.77
LOCATION L0044822	VOLUME	441919.588	3760603.605	200.81
LOCATION L0044823	VOLUME	441916.036	3760607.029	200.84
LOCATION L0044824	VOLUME	441911.393	3760608.886	200.86
LOCATION L0044825	VOLUME	441906.751	3760610.743	200.88
LOCATION L0044826	VOLUME	441902.109	3760612.600	200.91
LOCATION L0044827	VOLUME	441897.466	3760614.457	200.94
LOCATION L0044828	VOLUME	441892.824	3760616.314	200.97
LOCATION L0044829	VOLUME	441888.047	3760617.629	200.99
LOCATION L0044830	VOLUME	441883.075	3760618.153	200.99
LOCATION L0044831	VOLUME	441878.102	3760618.676	201.00
LOCATION L0044832	VOLUME	441873.130	3760619.200	201.00
LOCATION L0044833	VOLUME	441868.157	3760619.723	201.01
LOCATION L0044834	VOLUME	441863.185	3760620.246	201.02
LOCATION L0044835	VOLUME	441858.212	3760620.770	201.04
LOCATION L0044836	VOLUME	441853.240	3760621.293	201.05
LOCATION L0044837	VOLUME	441848.267	3760621.817	201.06
LOCATION L0044838	VOLUME	441843.295	3760622.340	201.08
LOCATION L0044839	VOLUME	441838.317	3760622.730	201.10
LOCATION L0044840	VOLUME	441833.318	3760622.626	201.11
LOCATION L0044841	VOLUME	441828.319	3760622.522	201.12
LOCATION L0044842	VOLUME	441823.320	3760622.418	201.13
LOCATION L0044843	VOLUME	441818.321	3760622.314	201.13
LOCATION L0044844	VOLUME	441813.322	3760622.210	201.14
LOCATION L0044845	VOLUME	441808.323	3760622.105	201.14
LOCATION L0044846	VOLUME	441803.324	3760622.001	201.15
LOCATION L0044847	VOLUME	441798.325	3760621.897	201.15
LOCATION L0044848	VOLUME	441793.326	3760621.793	201.15
LOCATION L0044849	VOLUME	441788.327	3760621.689	201.14
LOCATION L0044850	VOLUME	441783.328	3760621.585	201.13
LOCATION L0044851	VOLUME	441778.330	3760621.481	201.12
LOCATION L0044852	VOLUME	441773.331	3760621.376	201.11
LOCATION L0044853	VOLUME	441768.332	3760621.272	201.11

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LOCATION L0044854	VOLUME	441763.333	3760621.168	201.12
LOCATION L0044855	VOLUME	441758.334	3760621.064	201.12
LOCATION L0044856	VOLUME	441753.335	3760620.960	201.13
LOCATION L0044857	VOLUME	441748.336	3760620.859	201.13
LOCATION L0044858	VOLUME	441743.337	3760620.758	201.13
LOCATION L0044859	VOLUME	441738.338	3760620.657	201.11
LOCATION L0044860	VOLUME	441733.339	3760620.556	201.10
LOCATION L0044861	VOLUME	441728.340	3760620.455	201.09
LOCATION L0044862	VOLUME	441723.341	3760620.354	201.07
LOCATION L0044863	VOLUME	441718.342	3760620.253	201.06
LOCATION L0044864	VOLUME	441713.343	3760620.152	201.06
LOCATION L0044865	VOLUME	441708.344	3760620.051	201.06
LOCATION L0044866	VOLUME	441703.345	3760619.950	201.06
LOCATION L0044867	VOLUME	441698.346	3760619.849	201.06
LOCATION L0044868	VOLUME	441693.347	3760619.748	201.06
LOCATION L0044869	VOLUME	441688.348	3760619.647	201.02
LOCATION L0044870	VOLUME	441683.349	3760619.546	200.99
LOCATION L0044871	VOLUME	441678.350	3760619.445	200.96
LOCATION L0044872	VOLUME	441673.351	3760619.344	200.92
LOCATION L0044873	VOLUME	441668.352	3760619.243	200.89
LOCATION L0044874	VOLUME	441663.409	3760618.657	200.87
LOCATION L0044875	VOLUME	441658.516	3760617.627	200.84
LOCATION L0044876	VOLUME	441653.623	3760616.597	200.82
LOCATION L0044877	VOLUME	441648.731	3760615.567	200.80
LOCATION L0044878	VOLUME	441643.838	3760614.537	200.78
LOCATION L0044879	VOLUME	441638.945	3760613.507	200.77
LOCATION L0044880	VOLUME	441634.052	3760612.477	200.75
LOCATION L0044881	VOLUME	441629.160	3760611.447	200.74
LOCATION L0044882	VOLUME	441624.267	3760610.417	200.73
LOCATION L0044883	VOLUME	441619.374	3760609.387	200.71
LOCATION L0044884	VOLUME	441614.892	3760607.810	200.68
LOCATION L0044885	VOLUME	441612.539	3760603.398	200.63
LOCATION L0044886	VOLUME	441610.186	3760598.986	200.59
LOCATION L0044887	VOLUME	441607.833	3760594.574	200.53
LOCATION L0044888	VOLUME	441605.480	3760590.163	200.47
LOCATION L0044889	VOLUME	441603.127	3760585.751	200.41
LOCATION L0044890	VOLUME	441600.953	3760581.279	200.36
LOCATION L0044891	VOLUME	441600.157	3760576.343	200.31
LOCATION L0044892	VOLUME	441599.360	3760571.407	200.27
LOCATION L0044893	VOLUME	441598.564	3760566.470	200.22
LOCATION L0044894	VOLUME	441597.768	3760561.534	200.19
LOCATION L0044895	VOLUME	441596.972	3760556.598	200.16
LOCATION L0044896	VOLUME	441597.517	3760551.793	200.13
LOCATION L0044897	VOLUME	441599.254	3760547.104	200.10
LOCATION L0044898	VOLUME	441600.990	3760542.415	200.08
LOCATION L0044899	VOLUME	441602.727	3760537.727	200.05
LOCATION L0044900	VOLUME	441604.463	3760533.038	200.03
LOCATION L0044901	VOLUME	441607.190	3760529.132	200.03

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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0044902	441611.350	3760526.358	200.03	
L0044903	441615.511	3760523.585	200.05	
L0044904	441619.671	3760520.811	200.08	
L0044905	441623.831	3760518.038	200.12	
L0044906	441627.991	3760515.264	200.15	
L0044907	441632.536	3760513.289	200.19	
L0044908	441637.299	3760511.769	200.23	
L0044909	441642.062	3760510.249	200.26	
L0044910	441646.826	3760508.728	200.24	
L0044911	441651.589	3760507.208	200.21	
L0044912	441656.352	3760505.688	200.18	
L0044913	441661.116	3760504.168	200.16	
L0044914	441665.879	3760502.647	200.13	
L0044915	441670.642	3760501.127	200.12	
L0044916	441675.609	3760500.840	200.12	
L0044917	441680.608	3760500.750	200.11	
L0044918	441685.607	3760500.661	200.11	
L0044919	441690.606	3760500.571	200.10	
L0044920	441695.606	3760500.481	200.10	
L0044921	441700.605	3760500.391	200.09	
L0044922	441705.604	3760500.301	200.09	
L0044923	441710.603	3760500.212	200.09	
L0044924	441715.602	3760500.122	200.08	
L0044925	441720.602	3760500.032	200.08	
L0044926	441725.601	3760499.942	200.07	
L0044927	441730.600	3760499.852	200.05	
L0044928	441735.599	3760499.762	200.04	
L0044929	441740.598	3760499.673	200.03	

\*\* End of LINE VOLUME Source ID = SLINE65

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE66

\*\* DESCRSRC Driveway 11

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.27E-07

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 2

\*\* 441961.845, 3760855.880, 202.79, 3.66, 2.33

\*\* 441996.400, 3760855.761, 202.59, 3.66, 2.33

\*\*

LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0044930	441964.345	3760855.871	202.70	
L0044931	441969.345	3760855.854	202.65	
L0044932	441974.345	3760855.837	202.61	
L0044933	441979.345	3760855.819	202.57	
L0044934	441984.345	3760855.802	202.55	

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LOCATION L0044935 VOLUME 441989.344 3760855.785 202.52  
LOCATION L0044936 VOLUME 441994.344 3760855.768 202.50

\*\* End of LINE VOLUME Source ID = SLINE66

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE67

\*\* DESCRSRC On-site Circulation - PA 4 Loading Area 2

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.51E-06

\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 12

\*\* 440990.332, 3760508.461, 198.63, 3.66, 2.33

\*\* 441030.342, 3760512.969, 199.06, 3.66, 2.33

\*\* 441085.567, 3760528.184, 199.47, 3.66, 2.33

\*\* 441126.140, 3760559.178, 199.68, 3.66, 2.33

\*\* 441136.284, 3760602.569, 199.98, 3.66, 2.33

\*\* 441137.974, 3760793.602, 200.66, 3.66, 2.33

\*\* 441135.720, 3760914.196, 201.57, 3.66, 2.33

\*\* 441134.839, 3761006.537, 202.09, 3.66, 2.33

\*\* 441130.939, 3761036.958, 202.34, 3.66, 2.33

\*\* 441101.299, 3761059.578, 202.84, 3.66, 2.33

\*\* 441066.979, 3761063.478, 202.68, 3.66, 2.33

\*\* 440988.242, 3761064.373, 202.75, 3.66, 2.33

\*\*

LOCATION L0044937 VOLUME 440992.816 3760508.741 198.72

LOCATION L0044938 VOLUME 440997.785 3760509.301 198.88

LOCATION L0044939 VOLUME 441002.753 3760509.861 199.00

LOCATION L0044940 VOLUME 441007.722 3760510.421 199.04

LOCATION L0044941 VOLUME 441012.690 3760510.980 199.09

LOCATION L0044942 VOLUME 441017.659 3760511.540 199.14

LOCATION L0044943 VOLUME 441022.628 3760512.100 199.18

LOCATION L0044944 VOLUME 441027.596 3760512.660 199.22

LOCATION L0044945 VOLUME 441032.498 3760513.563 199.23

LOCATION L0044946 VOLUME 441037.319 3760514.892 199.26

LOCATION L0044947 VOLUME 441042.139 3760516.220 199.28

LOCATION L0044948 VOLUME 441046.960 3760517.548 199.31

LOCATION L0044949 VOLUME 441051.780 3760518.876 199.33

LOCATION L0044950 VOLUME 441056.600 3760520.204 199.35

LOCATION L0044951 VOLUME 441061.421 3760521.532 199.37

LOCATION L0044952 VOLUME 441066.241 3760522.860 199.38

LOCATION L0044953 VOLUME 441071.062 3760524.188 199.39

LOCATION L0044954 VOLUME 441075.882 3760525.516 199.40

LOCATION L0044955 VOLUME 441080.702 3760526.844 199.41

LOCATION L0044956 VOLUME 441085.523 3760528.172 199.41

LOCATION L0044957 VOLUME 441089.504 3760531.192 199.43

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LOCATION L0044958	VOLUME	441093.477	3760534.227	199.43
LOCATION L0044959	VOLUME	441097.451	3760537.262	199.42
LOCATION L0044960	VOLUME	441101.424	3760540.297	199.42
LOCATION L0044961	VOLUME	441105.397	3760543.333	199.43
LOCATION L0044962	VOLUME	441109.371	3760546.368	199.46
LOCATION L0044963	VOLUME	441113.344	3760549.403	199.50
LOCATION L0044964	VOLUME	441117.317	3760552.438	199.54
LOCATION L0044965	VOLUME	441121.291	3760555.473	199.58
LOCATION L0044966	VOLUME	441125.264	3760558.509	199.62
LOCATION L0044967	VOLUME	441127.027	3760562.973	199.66
LOCATION L0044968	VOLUME	441128.166	3760567.842	199.71
LOCATION L0044969	VOLUME	441129.304	3760572.711	199.75
LOCATION L0044970	VOLUME	441130.442	3760577.579	199.80
LOCATION L0044971	VOLUME	441131.580	3760582.448	199.85
LOCATION L0044972	VOLUME	441132.718	3760587.317	199.89
LOCATION L0044973	VOLUME	441133.856	3760592.185	199.94
LOCATION L0044974	VOLUME	441134.994	3760597.054	199.99
LOCATION L0044975	VOLUME	441136.133	3760601.923	200.04
LOCATION L0044976	VOLUME	441136.322	3760606.905	200.09
LOCATION L0044977	VOLUME	441136.366	3760611.905	200.14
LOCATION L0044978	VOLUME	441136.410	3760616.905	200.19
LOCATION L0044979	VOLUME	441136.455	3760621.905	200.24
LOCATION L0044980	VOLUME	441136.499	3760626.905	200.30
LOCATION L0044981	VOLUME	441136.543	3760631.904	200.33
LOCATION L0044982	VOLUME	441136.587	3760636.904	200.35
LOCATION L0044983	VOLUME	441136.632	3760641.904	200.37
LOCATION L0044984	VOLUME	441136.676	3760646.904	200.38
LOCATION L0044985	VOLUME	441136.720	3760651.904	200.40
LOCATION L0044986	VOLUME	441136.764	3760656.903	200.42
LOCATION L0044987	VOLUME	441136.809	3760661.903	200.45
LOCATION L0044988	VOLUME	441136.853	3760666.903	200.50
LOCATION L0044989	VOLUME	441136.897	3760671.903	200.56
LOCATION L0044990	VOLUME	441136.941	3760676.903	200.61
LOCATION L0044991	VOLUME	441136.986	3760681.902	200.67
LOCATION L0044992	VOLUME	441137.030	3760686.902	200.72
LOCATION L0044993	VOLUME	441137.074	3760691.902	200.77
LOCATION L0044994	VOLUME	441137.118	3760696.902	200.74
LOCATION L0044995	VOLUME	441137.163	3760701.902	200.71
LOCATION L0044996	VOLUME	441137.207	3760706.901	200.69
LOCATION L0044997	VOLUME	441137.251	3760711.901	200.66
LOCATION L0044998	VOLUME	441137.295	3760716.901	200.63
LOCATION L0044999	VOLUME	441137.340	3760721.901	200.61
LOCATION L0045000	VOLUME	441137.384	3760726.901	200.61
LOCATION L0045001	VOLUME	441137.428	3760731.900	200.61
LOCATION L0045002	VOLUME	441137.472	3760736.900	200.61
LOCATION L0045003	VOLUME	441137.517	3760741.900	200.62
LOCATION L0045004	VOLUME	441137.561	3760746.900	200.62
LOCATION L0045005	VOLUME	441137.605	3760751.900	200.62

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LOCATION L0045006	VOLUME	441137.649	3760756.900	200.63
LOCATION L0045007	VOLUME	441137.694	3760761.899	200.64
LOCATION L0045008	VOLUME	441137.738	3760766.899	200.65
LOCATION L0045009	VOLUME	441137.782	3760771.899	200.67
LOCATION L0045010	VOLUME	441137.826	3760776.899	200.68
LOCATION L0045011	VOLUME	441137.871	3760781.899	200.69
LOCATION L0045012	VOLUME	441137.915	3760786.898	200.75
LOCATION L0045013	VOLUME	441137.959	3760791.898	200.82
LOCATION L0045014	VOLUME	441137.913	3760796.898	200.90
LOCATION L0045015	VOLUME	441137.819	3760801.897	200.98
LOCATION L0045016	VOLUME	441137.726	3760806.896	201.05
LOCATION L0045017	VOLUME	441137.632	3760811.895	201.13
LOCATION L0045018	VOLUME	441137.539	3760816.894	201.19
LOCATION L0045019	VOLUME	441137.445	3760821.893	201.23
LOCATION L0045020	VOLUME	441137.352	3760826.892	201.27
LOCATION L0045021	VOLUME	441137.259	3760831.891	201.31
LOCATION L0045022	VOLUME	441137.165	3760836.891	201.35
LOCATION L0045023	VOLUME	441137.072	3760841.890	201.39
LOCATION L0045024	VOLUME	441136.978	3760846.889	201.42
LOCATION L0045025	VOLUME	441136.885	3760851.888	201.42
LOCATION L0045026	VOLUME	441136.791	3760856.887	201.43
LOCATION L0045027	VOLUME	441136.698	3760861.886	201.43
LOCATION L0045028	VOLUME	441136.604	3760866.885	201.43
LOCATION L0045029	VOLUME	441136.511	3760871.884	201.43
LOCATION L0045030	VOLUME	441136.418	3760876.884	201.44
LOCATION L0045031	VOLUME	441136.324	3760881.883	201.46
LOCATION L0045032	VOLUME	441136.231	3760886.882	201.48
LOCATION L0045033	VOLUME	441136.137	3760891.881	201.50
LOCATION L0045034	VOLUME	441136.044	3760896.880	201.52
LOCATION L0045035	VOLUME	441135.950	3760901.879	201.54
LOCATION L0045036	VOLUME	441135.857	3760906.878	201.56
LOCATION L0045037	VOLUME	441135.763	3760911.877	201.58
LOCATION L0045038	VOLUME	441135.695	3760916.877	201.59
LOCATION L0045039	VOLUME	441135.647	3760921.877	201.60
LOCATION L0045040	VOLUME	441135.599	3760926.876	201.62
LOCATION L0045041	VOLUME	441135.551	3760931.876	201.63
LOCATION L0045042	VOLUME	441135.504	3760936.876	201.65
LOCATION L0045043	VOLUME	441135.456	3760941.876	201.68
LOCATION L0045044	VOLUME	441135.408	3760946.876	201.71
LOCATION L0045045	VOLUME	441135.361	3760951.875	201.75
LOCATION L0045046	VOLUME	441135.313	3760956.875	201.78
LOCATION L0045047	VOLUME	441135.265	3760961.875	201.82
LOCATION L0045048	VOLUME	441135.218	3760966.875	201.85
LOCATION L0045049	VOLUME	441135.170	3760971.874	201.88
LOCATION L0045050	VOLUME	441135.122	3760976.874	201.92
LOCATION L0045051	VOLUME	441135.075	3760981.874	201.95
LOCATION L0045052	VOLUME	441135.027	3760986.874	201.98
LOCATION L0045053	VOLUME	441134.979	3760991.873	202.01

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LOCATION L0045054	VOLUME	441134.932	3760996.873	202.05
LOCATION L0045055	VOLUME	441134.884	3761001.873	202.08
LOCATION L0045056	VOLUME	441134.797	3761006.870	202.12
LOCATION L0045057	VOLUME	441134.161	3761011.830	202.16
LOCATION L0045058	VOLUME	441133.525	3761016.789	202.20
LOCATION L0045059	VOLUME	441132.889	3761021.748	202.24
LOCATION L0045060	VOLUME	441132.254	3761026.708	202.28
LOCATION L0045061	VOLUME	441131.618	3761031.667	202.33
LOCATION L0045062	VOLUME	441130.982	3761036.627	202.37
LOCATION L0045063	VOLUME	441127.230	3761039.789	202.45
LOCATION L0045064	VOLUME	441123.255	3761042.822	202.52
LOCATION L0045065	VOLUME	441119.281	3761045.855	202.59
LOCATION L0045066	VOLUME	441115.306	3761048.889	202.66
LOCATION L0045067	VOLUME	441111.331	3761051.922	202.73
LOCATION L0045068	VOLUME	441107.356	3761054.955	202.80
LOCATION L0045069	VOLUME	441103.382	3761057.989	202.84
LOCATION L0045070	VOLUME	441098.934	3761059.847	202.87
LOCATION L0045071	VOLUME	441093.966	3761060.411	202.89
LOCATION L0045072	VOLUME	441088.998	3761060.976	202.90
LOCATION L0045073	VOLUME	441084.030	3761061.541	202.92
LOCATION L0045074	VOLUME	441079.062	3761062.105	202.91
LOCATION L0045075	VOLUME	441074.094	3761062.670	202.85
LOCATION L0045076	VOLUME	441069.126	3761063.234	202.79
LOCATION L0045077	VOLUME	441064.140	3761063.510	202.73
LOCATION L0045078	VOLUME	441059.140	3761063.567	202.67
LOCATION L0045079	VOLUME	441054.141	3761063.624	202.61
LOCATION L0045080	VOLUME	441049.141	3761063.681	202.54
LOCATION L0045081	VOLUME	441044.141	3761063.738	202.46
LOCATION L0045082	VOLUME	441039.141	3761063.795	202.39
LOCATION L0045083	VOLUME	441034.142	3761063.852	202.31
LOCATION L0045084	VOLUME	441029.142	3761063.908	202.25
LOCATION L0045085	VOLUME	441024.142	3761063.965	202.26
LOCATION L0045086	VOLUME	441019.143	3761064.022	202.26
LOCATION L0045087	VOLUME	441014.143	3761064.079	202.26
LOCATION L0045088	VOLUME	441009.143	3761064.136	202.27
LOCATION L0045089	VOLUME	441004.144	3761064.193	202.28
LOCATION L0045090	VOLUME	440999.144	3761064.249	202.41
LOCATION L0045091	VOLUME	440994.144	3761064.306	202.54
LOCATION L0045092	VOLUME	440989.145	3761064.363	202.67

\*\* End of LINE VOLUME Source ID = SLINE67

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE68

\*\* DESCRSRC On-Site Circulation - PA 4 Loading Area 1

\*\* PREFIX

\*\* Length of Side = 5.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.75E-06



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\*\* Vertical Dimension = 6.22

\*\* SZINIT = 2.89

\*\* Nodes = 13

\*\* 440988.019, 3761064.442, 202.76, 3.66, 2.33

\*\* 440920.669, 3761060.919, 203.29, 3.66, 2.33

\*\* 440882.111, 3761059.083, 202.02, 3.66, 2.33

\*\* 440856.406, 3761049.903, 201.74, 3.66, 2.33

\*\* 440836.209, 3761022.361, 200.90, 3.66, 2.33

\*\* 440825.193, 3760936.983, 200.35, 3.66, 2.33

\*\* 440822.438, 3760806.621, 199.55, 3.66, 2.33

\*\* 440824.275, 3760597.306, 197.76, 3.66, 2.33

\*\* 440844.306, 3760553.497, 197.42, 3.66, 2.33

\*\* 440880.275, 3760521.109, 197.53, 3.66, 2.33

\*\* 440917.915, 3760512.846, 197.91, 3.66, 2.33

\*\* 440962.899, 3760510.092, 198.13, 3.66, 2.33

\*\* 440989.725, 3760509.518, 198.60, 3.66, 2.33

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LOCATION L0045093      VOLUME  440985.523 3761064.311 202.76
LOCATION L0045094      VOLUME  440980.530 3761064.050 202.89
LOCATION L0045095      VOLUME  440975.536 3761063.789 202.99
LOCATION L0045096      VOLUME  440970.543 3761063.528 203.07
LOCATION L0045097      VOLUME  440965.550 3761063.266 203.16
LOCATION L0045098      VOLUME  440960.557 3761063.005 203.25
LOCATION L0045099      VOLUME  440955.564 3761062.744 203.33
LOCATION L0045100      VOLUME  440950.571 3761062.483 203.38
LOCATION L0045101      VOLUME  440945.577 3761062.222 203.38
LOCATION L0045102      VOLUME  440940.584 3761061.961 203.38
LOCATION L0045103      VOLUME  440935.591 3761061.700 203.39
LOCATION L0045104      VOLUME  440930.598 3761061.439 203.39
LOCATION L0045105      VOLUME  440925.605 3761061.177 203.35
LOCATION L0045106      VOLUME  440920.611 3761060.917 203.24
LOCATION L0045107      VOLUME  440915.617 3761060.679 203.13
LOCATION L0045108      VOLUME  440910.623 3761060.441 203.02
LOCATION L0045109      VOLUME  440905.628 3761060.203 202.91
LOCATION L0045110      VOLUME  440900.634 3761059.965 202.79
LOCATION L0045111      VOLUME  440895.640 3761059.727 202.61
LOCATION L0045112      VOLUME  440890.645 3761059.490 202.44
LOCATION L0045113      VOLUME  440885.651 3761059.252 202.26
LOCATION L0045114      VOLUME  440880.740 3761058.593 202.08
LOCATION L0045115      VOLUME  440876.031 3761056.912 201.91
LOCATION L0045116      VOLUME  440871.323 3761055.230 201.86
LOCATION L0045117      VOLUME  440866.614 3761053.548 201.81
LOCATION L0045118      VOLUME  440861.905 3761051.867 201.76
LOCATION L0045119      VOLUME  440857.196 3761050.185 201.70
LOCATION L0045120      VOLUME  440853.946 3761046.547 201.62
LOCATION L0045121      VOLUME  440850.989 3761042.515 201.53
LOCATION L0045122      VOLUME  440848.032 3761038.483 201.45
LOCATION L0045123      VOLUME  440845.075 3761034.451 201.36

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LOCATION L0045124	VOLUME	440842.118	3761030.419	201.28
LOCATION L0045125	VOLUME	440839.161	3761026.387	201.19
LOCATION L0045126	VOLUME	440836.208	3761022.354	201.12
LOCATION L0045127	VOLUME	440835.568	3761017.395	201.05
LOCATION L0045128	VOLUME	440834.928	3761012.436	200.98
LOCATION L0045129	VOLUME	440834.289	3761007.477	200.91
LOCATION L0045130	VOLUME	440833.649	3761002.518	200.84
LOCATION L0045131	VOLUME	440833.009	3760997.559	200.80
LOCATION L0045132	VOLUME	440832.369	3760992.601	200.76
LOCATION L0045133	VOLUME	440831.729	3760987.642	200.71
LOCATION L0045134	VOLUME	440831.089	3760982.683	200.67
LOCATION L0045135	VOLUME	440830.449	3760977.724	200.63
LOCATION L0045136	VOLUME	440829.810	3760972.765	200.59
LOCATION L0045137	VOLUME	440829.170	3760967.806	200.55
LOCATION L0045138	VOLUME	440828.530	3760962.847	200.52
LOCATION L0045139	VOLUME	440827.890	3760957.888	200.49
LOCATION L0045140	VOLUME	440827.250	3760952.929	200.46
LOCATION L0045141	VOLUME	440826.610	3760947.971	200.42
LOCATION L0045142	VOLUME	440825.970	3760943.012	200.39
LOCATION L0045143	VOLUME	440825.331	3760938.053	200.35
LOCATION L0045144	VOLUME	440825.110	3760933.062	200.31
LOCATION L0045145	VOLUME	440825.004	3760928.064	200.26
LOCATION L0045146	VOLUME	440824.899	3760923.065	200.22
LOCATION L0045147	VOLUME	440824.793	3760918.066	200.18
LOCATION L0045148	VOLUME	440824.687	3760913.067	200.13
LOCATION L0045149	VOLUME	440824.582	3760908.068	200.09
LOCATION L0045150	VOLUME	440824.476	3760903.069	200.05
LOCATION L0045151	VOLUME	440824.370	3760898.070	200.01
LOCATION L0045152	VOLUME	440824.265	3760893.071	199.98
LOCATION L0045153	VOLUME	440824.159	3760888.073	199.94
LOCATION L0045154	VOLUME	440824.054	3760883.074	199.90
LOCATION L0045155	VOLUME	440823.948	3760878.075	199.86
LOCATION L0045156	VOLUME	440823.842	3760873.076	199.84
LOCATION L0045157	VOLUME	440823.737	3760868.077	199.82
LOCATION L0045158	VOLUME	440823.631	3760863.078	199.80
LOCATION L0045159	VOLUME	440823.526	3760858.079	199.78
LOCATION L0045160	VOLUME	440823.420	3760853.080	199.77
LOCATION L0045161	VOLUME	440823.314	3760848.081	199.75
LOCATION L0045162	VOLUME	440823.209	3760843.083	199.72
LOCATION L0045163	VOLUME	440823.103	3760838.084	199.69
LOCATION L0045164	VOLUME	440822.998	3760833.085	199.66
LOCATION L0045165	VOLUME	440822.892	3760828.086	199.63
LOCATION L0045166	VOLUME	440822.786	3760823.087	199.61
LOCATION L0045167	VOLUME	440822.681	3760818.088	199.58
LOCATION L0045168	VOLUME	440822.575	3760813.089	199.55
LOCATION L0045169	VOLUME	440822.469	3760808.090	199.52
LOCATION L0045170	VOLUME	440822.469	3760803.091	199.49
LOCATION L0045171	VOLUME	440822.513	3760798.091	199.46

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LOCATION L0045172	VOLUME	440822.557	3760793.091	199.43
LOCATION L0045173	VOLUME	440822.601	3760788.091	199.40
LOCATION L0045174	VOLUME	440822.645	3760783.092	199.37
LOCATION L0045175	VOLUME	440822.689	3760778.092	199.33
LOCATION L0045176	VOLUME	440822.733	3760773.092	199.29
LOCATION L0045177	VOLUME	440822.776	3760768.092	199.26
LOCATION L0045178	VOLUME	440822.820	3760763.092	199.22
LOCATION L0045179	VOLUME	440822.864	3760758.093	199.18
LOCATION L0045180	VOLUME	440822.908	3760753.093	199.14
LOCATION L0045181	VOLUME	440822.952	3760748.093	199.10
LOCATION L0045182	VOLUME	440822.996	3760743.093	199.06
LOCATION L0045183	VOLUME	440823.040	3760738.093	199.02
LOCATION L0045184	VOLUME	440823.083	3760733.094	198.98
LOCATION L0045185	VOLUME	440823.127	3760728.094	198.94
LOCATION L0045186	VOLUME	440823.171	3760723.094	198.90
LOCATION L0045187	VOLUME	440823.215	3760718.094	198.86
LOCATION L0045188	VOLUME	440823.259	3760713.094	198.82
LOCATION L0045189	VOLUME	440823.303	3760708.094	198.77
LOCATION L0045190	VOLUME	440823.347	3760703.095	198.73
LOCATION L0045191	VOLUME	440823.390	3760698.095	198.69
LOCATION L0045192	VOLUME	440823.434	3760693.095	198.65
LOCATION L0045193	VOLUME	440823.478	3760688.095	198.60
LOCATION L0045194	VOLUME	440823.522	3760683.095	198.56
LOCATION L0045195	VOLUME	440823.566	3760678.096	198.52
LOCATION L0045196	VOLUME	440823.610	3760673.096	198.48
LOCATION L0045197	VOLUME	440823.654	3760668.096	198.43
LOCATION L0045198	VOLUME	440823.697	3760663.096	198.39
LOCATION L0045199	VOLUME	440823.741	3760658.096	198.35
LOCATION L0045200	VOLUME	440823.785	3760653.097	198.31
LOCATION L0045201	VOLUME	440823.829	3760648.097	198.27
LOCATION L0045202	VOLUME	440823.873	3760643.097	198.22
LOCATION L0045203	VOLUME	440823.917	3760638.097	198.18
LOCATION L0045204	VOLUME	440823.961	3760633.097	198.14
LOCATION L0045205	VOLUME	440824.004	3760628.098	198.09
LOCATION L0045206	VOLUME	440824.048	3760623.098	198.03
LOCATION L0045207	VOLUME	440824.092	3760618.098	197.98
LOCATION L0045208	VOLUME	440824.136	3760613.098	197.92
LOCATION L0045209	VOLUME	440824.180	3760608.098	197.86
LOCATION L0045210	VOLUME	440824.224	3760603.099	197.81
LOCATION L0045211	VOLUME	440824.268	3760598.099	197.74
LOCATION L0045212	VOLUME	440826.024	3760593.480	197.69
LOCATION L0045213	VOLUME	440828.103	3760588.933	197.65
LOCATION L0045214	VOLUME	440830.183	3760584.385	197.60
LOCATION L0045215	VOLUME	440832.262	3760579.838	197.56
LOCATION L0045216	VOLUME	440834.341	3760575.291	197.52
LOCATION L0045217	VOLUME	440836.420	3760570.744	197.48
LOCATION L0045218	VOLUME	440838.499	3760566.197	197.44
LOCATION L0045219	VOLUME	440840.578	3760561.649	197.41

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LOCATION	L0045220	VOLUME	440842.658	3760557.102	197.38
LOCATION	L0045221	VOLUME	440845.076	3760552.804	197.35
LOCATION	L0045222	VOLUME	440848.791	3760549.458	197.36
LOCATION	L0045223	VOLUME	440852.507	3760546.112	197.39
LOCATION	L0045224	VOLUME	440856.223	3760542.767	197.42
LOCATION	L0045225	VOLUME	440859.938	3760539.421	197.45
LOCATION	L0045226	VOLUME	440863.654	3760536.075	197.49
LOCATION	L0045227	VOLUME	440867.370	3760532.729	197.53
LOCATION	L0045228	VOLUME	440871.085	3760529.384	197.56
LOCATION	L0045229	VOLUME	440874.801	3760526.038	197.59
LOCATION	L0045230	VOLUME	440878.517	3760522.692	197.62
LOCATION	L0045231	VOLUME	440882.847	3760520.544	197.67
LOCATION	L0045232	VOLUME	440887.731	3760519.472	197.74
LOCATION	L0045233	VOLUME	440892.615	3760518.400	197.81
LOCATION	L0045234	VOLUME	440897.499	3760517.328	197.88
LOCATION	L0045235	VOLUME	440902.382	3760516.256	197.90
LOCATION	L0045236	VOLUME	440907.266	3760515.184	197.92
LOCATION	L0045237	VOLUME	440912.150	3760514.112	197.93
LOCATION	L0045238	VOLUME	440917.033	3760513.040	197.95
LOCATION	L0045239	VOLUME	440922.005	3760512.596	197.97
LOCATION	L0045240	VOLUME	440926.995	3760512.290	197.98
LOCATION	L0045241	VOLUME	440931.986	3760511.985	197.99
LOCATION	L0045242	VOLUME	440936.977	3760511.679	198.00
LOCATION	L0045243	VOLUME	440941.967	3760511.374	198.01
LOCATION	L0045244	VOLUME	440946.958	3760511.068	198.02
LOCATION	L0045245	VOLUME	440951.949	3760510.763	198.04
LOCATION	L0045246	VOLUME	440956.939	3760510.457	198.08
LOCATION	L0045247	VOLUME	440961.930	3760510.151	198.12
LOCATION	L0045248	VOLUME	440966.927	3760510.006	198.16
LOCATION	L0045249	VOLUME	440971.926	3760509.899	198.20
LOCATION	L0045250	VOLUME	440976.925	3760509.792	198.28
LOCATION	L0045251	VOLUME	440981.924	3760509.685	198.42
LOCATION	L0045252	VOLUME	440986.923	3760509.578	198.57

\*\* End of LINE VOLUME Source ID = SLINE68

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0040784	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040785	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040786	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040787	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040788	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040789	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040790	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040791	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040792	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040793	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040794	0.0000001805	3.66	5.58	2.89
SRCPARAM	L0040795	0.0000001805	3.66	5.58	2.89

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SRCPARAM L0040796	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040797	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040798	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040799	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040800	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040801	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040802	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040803	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040804	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040805	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040806	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040807	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040808	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040809	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040810	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040811	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040812	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040813	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040814	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040815	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040816	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040817	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040818	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040819	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040820	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040821	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040822	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040823	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040824	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040825	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040826	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040827	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040828	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040829	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040830	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040831	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040832	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040833	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040834	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040835	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040836	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040837	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040838	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040839	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040840	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040841	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040842	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040843	0.0000001805	3.66	5.58	2.89

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SRCPARAM L0040844	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040845	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040846	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040847	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040848	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040849	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040850	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040851	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040852	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040853	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040854	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040855	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040856	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040857	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040858	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040859	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040860	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040861	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040862	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040863	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040864	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040865	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040866	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040867	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040868	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040869	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040870	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040871	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040872	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040873	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040874	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040875	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040876	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040877	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040878	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040879	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040880	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040881	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040882	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040883	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040884	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040885	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040886	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040887	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040888	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040889	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040890	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040891	0.0000001805	3.66	5.58	2.89



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SRCPARAM L0040940	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040941	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040942	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040943	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040944	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040945	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040946	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040947	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040948	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040949	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040950	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040951	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040952	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040953	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040954	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040955	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040956	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040957	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040958	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040959	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040960	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040961	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040962	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040963	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040964	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040965	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040966	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040967	0.0000001805	3.66	5.58	2.89
SRCPARAM L0040968	0.0000001805	3.66	5.58	2.89

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM L0040969	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040970	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040971	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040972	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040973	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040974	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040975	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040976	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040977	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040978	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040979	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040980	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040981	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040982	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040983	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040984	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040985	0.0000001203	3.66	5.58	2.89



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SRCPARAM L0040986	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040987	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040988	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040989	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040990	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040991	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040992	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040993	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040994	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040995	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040996	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040997	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040998	0.0000001203	3.66	5.58	2.89
SRCPARAM L0040999	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041000	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041001	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041002	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041003	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041004	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041005	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041006	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041007	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041008	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041009	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041010	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041011	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041012	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041013	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041014	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041015	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041016	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041017	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041018	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041019	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041020	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041021	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041022	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041023	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041024	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041025	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041026	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041027	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041028	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041029	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041030	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041031	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041032	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041033	0.0000001203	3.66	5.58	2.89



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SRCPARAM L0041082	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041083	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041084	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041085	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041086	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041087	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041088	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041089	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041090	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041091	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041092	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041093	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041094	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041095	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041096	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041097	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041098	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041099	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041100	0.0000001203	3.66	5.58	2.89
SRCPARAM L0041101	0.0000001203	3.66	5.58	2.89

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\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM L0041102	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041103	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041104	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041105	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041106	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041107	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041108	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041109	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041110	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041111	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041112	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041113	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041114	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041115	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041116	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041117	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041118	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041119	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041120	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041121	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041122	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041123	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041124	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041125	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041126	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041127	0.00000006818	3.66	2.33	2.89







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SRCPARAM L0041272	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041273	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041274	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041275	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041276	0.00000006818	3.66	2.33	2.89
SRCPARAM L0041277	0.00000006818	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE5

SRCPARAM L0041278	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041279	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041280	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041281	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041282	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041283	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041284	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041285	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041286	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041287	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041288	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041289	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041290	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041291	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041292	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041293	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041294	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041295	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041296	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041297	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041298	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041299	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041300	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041301	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041302	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041303	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041304	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041305	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041306	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041307	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041308	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041309	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041310	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041311	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041312	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041313	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041314	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041315	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041316	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041317	0.00000006807	3.66	2.33	2.89

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SRCPARAM L0041318	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041319	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041320	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041321	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041322	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041323	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041324	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041325	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041326	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041327	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041328	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041329	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041330	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041331	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041332	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041333	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041334	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041335	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041336	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041337	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041338	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041339	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041340	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041341	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041342	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041343	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041344	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041345	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041346	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041347	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041348	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041349	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041350	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041351	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041352	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041353	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041354	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041355	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041356	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041357	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041358	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041359	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041360	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041361	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041362	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041363	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041364	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041365	0.00000006807	3.66	2.33	2.89























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SRCPARAM L0041798	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041799	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041800	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041801	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041802	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041803	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041804	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041805	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041806	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041807	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041808	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041809	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041810	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041811	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041812	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041813	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041814	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041815	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041816	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041817	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041818	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041819	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041820	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041821	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041822	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041823	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041824	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041825	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041826	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041827	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041828	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041829	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041830	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041831	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041832	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041833	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041834	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041835	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041836	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041837	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041838	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041839	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041840	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041841	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041842	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041843	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041844	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041845	0.00000006807	3.66	2.33	2.89



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SRCPARAM L0041894	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041895	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041896	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041897	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041898	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041899	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041900	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041901	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041902	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041903	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041904	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041905	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041906	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041907	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041908	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041909	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041910	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041911	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041912	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041913	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041914	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041915	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041916	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041917	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041918	0.00000006807	3.66	2.33	2.89
SRCPARAM L0041919	0.00000006807	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE13

SRCPARAM L0041920	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041921	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041922	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041923	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041924	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041925	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041926	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041927	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041928	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041929	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041930	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041931	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041932	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041933	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041934	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041935	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041936	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041937	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041938	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041939	0.00000005535	3.66	2.33	2.89

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SRCPARAM L0041940	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041941	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041942	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041943	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041944	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041945	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041946	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041947	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041948	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041949	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041950	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041951	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041952	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041953	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041954	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041955	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041956	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041957	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041958	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041959	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041960	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041961	0.00000005535	3.66	2.33	2.89
SRCPARAM L0041962	0.00000005535	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE14

SRCPARAM L0041963	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041964	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041965	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041966	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041967	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041968	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041969	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041970	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041971	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041972	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041973	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041974	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041975	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041976	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041977	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041978	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041979	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041980	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041981	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041982	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041983	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041984	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041985	0.0000000465	3.66	2.33	2.89

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SRCPARAM L0041986	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041987	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041988	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041989	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041990	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041991	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041992	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041993	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041994	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041995	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041996	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041997	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041998	0.0000000465	3.66	2.33	2.89
SRCPARAM L0041999	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042000	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042001	0.0000000465	3.66	2.33	2.89
SRCPARAM L0042002	0.0000000465	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE15

SRCPARAM L0042003	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042004	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042005	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042006	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042007	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042008	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042009	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042010	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042011	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042012	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042013	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042014	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042015	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042016	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042017	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042018	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042019	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042020	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042021	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042022	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042023	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042024	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042025	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042026	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042027	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042028	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042029	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042030	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042031	0.00000004472	3.66	2.33	2.89

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SRCPARAM L0042032	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042033	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042034	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042035	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042036	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042037	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042038	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042039	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042040	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042041	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042042	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042043	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042044	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042045	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042046	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042047	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042048	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042049	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042050	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042051	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042052	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042053	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042054	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042055	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042056	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042057	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042058	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042059	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042060	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042061	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042062	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042063	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042064	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042065	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042066	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042067	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042068	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042069	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042070	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042071	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042072	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042073	0.00000004472	3.66	2.33	2.89
SRCPARAM L0042074	0.00000004472	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE16

SRCPARAM L0042075	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042076	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042077	0.00000003475	3.66	2.33	2.89

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SRCPARAM L0042078	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042079	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042080	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042081	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042082	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042083	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042084	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042085	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042086	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042087	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042088	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042089	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042090	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042091	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042092	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042093	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042094	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042095	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042096	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042097	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042098	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042099	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042100	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042101	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042102	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042103	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042104	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042105	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042106	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042107	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042108	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042109	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042110	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042111	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042112	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042113	0.00000003475	3.66	2.33	2.89
SRCPARAM L0042114	0.00000003475	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE17

SRCPARAM L0042115	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042116	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042117	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042118	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042119	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042120	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042121	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042122	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042123	0.0000000232	3.66	2.33	2.89



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SRCPARAM L0042124	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042125	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042126	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042127	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042128	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042129	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042130	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042131	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042132	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042133	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042134	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042135	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042136	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042137	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042138	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042139	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042140	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042141	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042142	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042143	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042144	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042145	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042146	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042147	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042148	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042149	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042150	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042151	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042152	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042153	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042154	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042155	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042156	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042157	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042158	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042159	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042160	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042161	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042162	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042163	0.0000000232	3.66	2.33	2.89
SRCPARAM L0042164	0.0000000232	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE18

SRCPARAM L0042165	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042166	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042167	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042168	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042169	0.0000001204	3.66	2.33	2.89



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SRCPARAM L0042218	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042219	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042220	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042221	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042222	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042223	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042224	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042225	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042226	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042227	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042228	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042229	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042230	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042231	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042232	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042233	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042234	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042235	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042236	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042237	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042238	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042239	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042240	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042241	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042242	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042243	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042244	0.0000001204	3.66	2.33	2.89
SRCPARAM L0042245	0.0000001204	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE19

SRCPARAM L0042246	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042247	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042248	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042249	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042250	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042251	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042252	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042253	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042254	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042255	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042256	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042257	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042258	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042259	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042260	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042261	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042262	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042263	0.00000008667	3.66	2.33	2.89

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SRCPARAM L0042264	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042265	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042266	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042267	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042268	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042269	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042270	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042271	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042272	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042273	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042274	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042275	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042276	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042277	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042278	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042279	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042280	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042281	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042282	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042283	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042284	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042285	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042286	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042287	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042288	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042289	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042290	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042291	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042292	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042293	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042294	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042295	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042296	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042297	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042298	0.00000008667	3.66	2.33	2.89
SRCPARAM L0042299	0.00000008667	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE20

SRCPARAM L0042300	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042301	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042302	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042303	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042304	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042305	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042306	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042307	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042308	0.0000000564	3.66	2.33	2.89
SRCPARAM L0042309	0.0000000564	3.66	2.33	2.89

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SRCPARAM	L0042310	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042311	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042312	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042313	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042314	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042315	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042316	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042317	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042318	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042319	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042320	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042321	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042322	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042323	0.0000000564	3.66	2.33	2.89
SRCPARAM	L0042324	0.0000000564	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE21

SRCPARAM	L0042325	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042326	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042327	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042328	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042329	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042330	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042331	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042332	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042333	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042334	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042335	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042336	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042337	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042338	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042339	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042340	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042341	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042342	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042343	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042344	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042345	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042346	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042347	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042348	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042349	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042350	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042351	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042352	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042353	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042354	0.00000004195	3.66	2.33	2.89
SRCPARAM	L0042355	0.00000004195	3.66	2.33	2.89

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SRCPARAM L0042356	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042357	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042358	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042359	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042360	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042361	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042362	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042363	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042364	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042365	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042366	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042367	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042368	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042369	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042370	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042371	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042372	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042373	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042374	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042375	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042376	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042377	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042378	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042379	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042380	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042381	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042382	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042383	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042384	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042385	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042386	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042387	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042388	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042389	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042390	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042391	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042392	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042393	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042394	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042395	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042396	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042397	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042398	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042399	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042400	0.00000004195	3.66	2.33	2.89
SRCPARAM L0042401	0.00000004195	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE22







SOL\_operations\_rev2.ADO

SRCPARAM	L0042498	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042499	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042500	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042501	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042502	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042503	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042504	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042505	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042506	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042507	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042508	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042509	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042510	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042511	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042512	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042513	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042514	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042515	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042516	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042517	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042518	0.000000008008	3.66	2.33	2.89
SRCPARAM	L0042519	0.000000008008	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE23

SRCPARAM	L0042520	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042521	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042522	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042523	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042524	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042525	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042526	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042527	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042528	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042529	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042530	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042531	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042532	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042533	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042534	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042535	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042536	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042537	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042538	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042539	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042540	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042541	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042542	0.00000004861	3.66	2.33	2.89
SRCPARAM	L0042543	0.00000004861	3.66	2.33	2.89

SOL\_operations\_rev2.ADO

SRCPARAM L0042544	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042545	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042546	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042547	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042548	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042549	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042550	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042551	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042552	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042553	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042554	0.00000004861	3.66	2.33	2.89
SRCPARAM L0042555	0.00000004861	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE24

SRCPARAM L0042556	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042557	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042558	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042559	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042560	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042561	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042562	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042563	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042564	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042565	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042566	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042567	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042568	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042569	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042570	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042571	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042572	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042573	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042574	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042575	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042576	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042577	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042578	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042579	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042580	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042581	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042582	0.00000005179	3.66	2.33	2.89
SRCPARAM L0042583	0.00000005179	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE25

SRCPARAM L0042584	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042585	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042586	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042587	0.00000003484	3.66	2.33	2.89

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SRCPARAM L0042588	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042589	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042590	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042591	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042592	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042593	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042594	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042595	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042596	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042597	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042598	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042599	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042600	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042601	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042602	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042603	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042604	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042605	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042606	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042607	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042608	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042609	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042610	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042611	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042612	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042613	0.00000003484	3.66	2.33	2.89
SRCPARAM L0042614	0.00000003484	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE26

SRCPARAM L0042615	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042616	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042617	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042618	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042619	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042620	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042621	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042622	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042623	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042624	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042625	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042626	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042627	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042628	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042629	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042630	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042631	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042632	0.00000001931	3.66	2.33	2.89
SRCPARAM L0042633	0.00000001931	3.66	2.33	2.89

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SRCPARAM	L0042634	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042635	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042636	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042637	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042638	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042639	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042640	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042641	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042642	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042643	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042644	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042645	0.00000001931	3.66	2.33	2.89
SRCPARAM	L0042646	0.00000001931	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE27

SRCPARAM	L0042647	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042648	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042649	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042650	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042651	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042652	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042653	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042654	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042655	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042656	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042657	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042658	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042659	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042660	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042661	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042662	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042663	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042664	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042665	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042666	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042667	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042668	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042669	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042670	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042671	0.00000001392	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE28

SRCPARAM	L0042672	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042673	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042674	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042675	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042676	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042677	0.00000001388	3.66	2.33	2.89

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SRCPARAM	L0042678	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042679	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042680	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042681	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042682	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042683	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042684	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042685	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042686	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042687	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042688	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042689	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042690	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042691	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042692	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042693	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042694	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042695	0.00000001388	3.66	2.33	2.89
SRCPARAM	L0042696	0.00000001388	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE29

SRCPARAM	L0042697	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042698	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042699	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042700	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042701	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042702	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042703	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042704	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042705	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042706	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042707	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042708	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042709	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042710	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042711	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042712	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042713	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042714	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042715	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042716	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042717	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042718	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042719	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042720	0.00000001392	3.66	2.33	2.89
SRCPARAM	L0042721	0.00000001392	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE30

SOL\_operations\_rev2.ADO

SRCPARAM	L0042722	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042723	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042724	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042725	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042726	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042727	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042728	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042729	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042730	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042731	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042732	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042733	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042734	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042735	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042736	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042737	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042738	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042739	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042740	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042741	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042742	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042743	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042744	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042745	0.00000002756	3.66	2.33	2.89
SRCPARAM	L0042746	0.00000002756	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE31

SRCPARAM	L0042747	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042748	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042749	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042750	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042751	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042752	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042753	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042754	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042755	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042756	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042757	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042758	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042759	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042760	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042761	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042762	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042763	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042764	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042765	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042766	0.00000008224	3.66	2.33	2.89
SRCPARAM	L0042767	0.00000008224	3.66	2.33	2.89



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SRCPARAM L0042816	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042817	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042818	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042819	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042820	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042821	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042822	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042823	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042824	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042825	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042826	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042827	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042828	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042829	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042830	0.00000008224	3.66	2.33	2.89
SRCPARAM L0042831	0.00000008224	3.66	2.33	2.89
** -----				
** LINE VOLUME Source ID = SLINE32				
SRCPARAM L0042832	0.00000001675	3.66	2.33	2.89
SRCPARAM L0042833	0.00000001675	3.66	2.33	2.89
SRCPARAM L0042834	0.00000001675	3.66	2.33	2.89
SRCPARAM L0042835	0.00000001675	3.66	2.33	2.89
** -----				
** LINE VOLUME Source ID = SLINE33				
SRCPARAM L0042836	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042837	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042838	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042839	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042840	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042841	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042842	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042843	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042844	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042845	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042846	0.00000008175	3.66	2.33	2.89
SRCPARAM L0042847	0.00000008175	3.66	2.33	2.89
** -----				
** LINE VOLUME Source ID = SLINE34				
SRCPARAM L0042848	0.00000003383	3.66	2.33	2.89
SRCPARAM L0042849	0.00000003383	3.66	2.33	2.89
SRCPARAM L0042850	0.00000003383	3.66	2.33	2.89
SRCPARAM L0042851	0.00000003383	3.66	2.33	2.89
SRCPARAM L0042852	0.00000003383	3.66	2.33	2.89
SRCPARAM L0042853	0.00000003383	3.66	2.33	2.89
** -----				
** LINE VOLUME Source ID = SLINE35				
SRCPARAM L0042854	0.0000000258	3.66	2.33	2.89
SRCPARAM L0042855	0.0000000258	3.66	2.33	2.89



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SRCPARAM	L0042856	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042857	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042858	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042859	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042860	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042861	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042862	0.0000000258	3.66	2.33	2.89
SRCPARAM	L0042863	0.0000000258	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE36

SRCPARAM	L0042864	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042865	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042866	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042867	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042868	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042869	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042870	0.00000007525	3.66	2.33	2.89
SRCPARAM	L0042871	0.00000007525	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE37

SRCPARAM	L0042872	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042873	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042874	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042875	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042876	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042877	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042878	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042879	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042880	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042881	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042882	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042883	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042884	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042885	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042886	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042887	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042888	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042889	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042890	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042891	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042892	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042893	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042894	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042895	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042896	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042897	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042898	0.00000005693	3.66	2.33	2.89
SRCPARAM	L0042899	0.00000005693	3.66	2.33	2.89



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\*\* LINE VOLUME Source ID = SLINE38

SRCPARAM	L0042947	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042948	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042949	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042950	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042951	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042952	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042953	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042954	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042955	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042956	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042957	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042958	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042959	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042960	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042961	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042962	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042963	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042964	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042965	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042966	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042967	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042968	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042969	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042970	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042971	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042972	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042973	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042974	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042975	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042976	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042977	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042978	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042979	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042980	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042981	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042982	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042983	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042984	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042985	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042986	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042987	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042988	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042989	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042990	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042991	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042992	0.00000002267	3.66	2.33	2.89
SRCPARAM	L0042993	0.00000002267	3.66	2.33	2.89

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SRCPARAM L0042994	0.00000002267	3.66	2.33	2.89
SRCPARAM L0042995	0.00000002267	3.66	2.33	2.89
SRCPARAM L0042996	0.00000002267	3.66	2.33	2.89
SRCPARAM L0042997	0.00000002267	3.66	2.33	2.89
SRCPARAM L0042998	0.00000002267	3.66	2.33	2.89
SRCPARAM L0042999	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043000	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043001	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043002	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043003	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043004	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043005	0.00000002267	3.66	2.33	2.89
SRCPARAM L0043006	0.00000002267	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE39

SRCPARAM L0043007	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043008	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043009	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043010	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043011	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043012	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043013	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043014	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043015	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043016	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043017	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043018	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043019	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043020	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043021	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043022	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043023	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043024	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043025	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043026	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043027	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043028	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043029	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043030	0.00000000676	3.66	2.33	2.89
SRCPARAM L0043031	0.00000000676	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE40

SRCPARAM L0043032	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043033	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043034	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043035	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043036	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043037	0.000000006818	3.66	2.33	2.89

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SRCPARAM L0043038	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043039	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043040	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043041	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043042	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043043	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043044	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043045	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043046	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043047	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043048	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043049	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043050	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043051	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043052	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043053	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043054	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043055	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043056	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043057	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043058	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043059	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043060	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043061	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043062	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043063	0.000000006818	3.66	2.33	2.89
SRCPARAM L0043064	0.000000006818	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE41

SRCPARAM L0043065	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043066	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043067	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043068	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043069	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043070	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043071	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043072	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043073	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043074	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043075	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043076	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043077	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043078	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043079	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043080	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043081	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043082	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043083	0.000000006918	3.66	2.33	2.89

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SRCPARAM L0043084	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043085	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043086	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043087	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043088	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043089	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043090	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043091	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043092	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043093	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043094	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043095	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043096	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043097	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043098	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043099	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043100	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043101	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043102	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043103	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043104	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043105	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043106	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043107	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043108	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043109	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043110	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043111	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043112	0.000000006918	3.66	2.33	2.89
SRCPARAM L0043113	0.000000006918	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE42

SRCPARAM L0043114	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043115	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043116	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043117	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043118	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043119	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043120	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043121	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043122	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043123	0.000000001664	3.66	2.33	2.89
SRCPARAM L0043124	0.000000001664	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE43

SRCPARAM L0043125	0.00000000128	3.66	2.33	2.89
SRCPARAM L0043126	0.00000000128	3.66	2.33	2.89
SRCPARAM L0043127	0.00000000128	3.66	2.33	2.89

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SRCPARAM	L0043128	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043129	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043130	0.0000000128	3.66	2.33	2.89
SRCPARAM	L0043131	0.0000000128	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE44				
SRCPARAM	L0043132	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043133	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043134	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043135	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043136	0.000000017	3.66	2.33	2.89
SRCPARAM	L0043137	0.000000017	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE45				
SRCPARAM	L0043138	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043139	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043140	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043141	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043142	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043143	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043144	0.00000003225	3.66	2.33	2.89
SRCPARAM	L0043145	0.00000003225	3.66	2.33	2.89
** -----					
**	LINE VOLUME Source ID = SLINE46				
SRCPARAM	L0043146	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043147	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043148	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043149	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043150	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043151	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043152	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043153	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043154	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043155	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043156	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043157	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043158	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043159	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043160	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043161	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043162	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043163	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043164	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043165	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043166	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043167	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043168	0.00000006859	3.66	2.33	2.89
SRCPARAM	L0043169	0.00000006859	3.66	2.33	2.89





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SRCPARAM L0043218	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043219	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043220	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043221	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043222	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043223	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043224	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043225	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043226	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043227	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043228	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043229	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043230	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043231	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043232	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043233	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043234	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043235	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043236	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043237	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043238	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043239	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043240	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043241	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043242	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043243	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043244	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043245	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043246	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043247	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043248	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043249	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043250	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043251	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043252	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043253	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043254	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043255	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043256	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043257	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043258	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043259	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043260	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043261	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043262	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043263	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043264	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043265	0.00000006859	3.66	2.33	2.89

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SRCPARAM L0043266	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043267	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043268	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043269	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043270	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043271	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043272	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043273	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043274	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043275	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043276	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043277	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043278	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043279	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043280	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043281	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043282	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043283	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043284	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043285	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043286	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043287	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043288	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043289	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043290	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043291	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043292	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043293	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043294	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043295	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043296	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043297	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043298	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043299	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043300	0.00000006859	3.66	2.33	2.89
SRCPARAM L0043301	0.00000006859	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE47

SRCPARAM L0043302	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043303	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043304	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043305	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043306	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043307	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043308	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043309	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043310	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043311	0.00000005921	3.66	2.33	2.89





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SRCPARAM L0043408	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043409	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043410	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043411	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043412	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043413	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043414	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043415	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043416	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043417	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043418	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043419	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043420	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043421	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043422	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043423	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043424	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043425	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043426	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043427	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043428	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043429	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043430	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043431	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043432	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043433	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043434	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043435	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043436	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043437	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043438	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043439	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043440	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043441	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043442	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043443	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043444	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043445	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043446	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043447	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043448	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043449	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043450	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043451	0.00000005921	3.66	2.33	2.89
SRCPARAM L0043452	0.00000005921	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE48

SRCPARAM L0043453	0.00000005866	3.66	2.33	2.89
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SRCPARAM L0043598	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043599	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043600	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043601	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043602	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043603	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043604	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043605	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043606	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043607	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043608	0.00000005866	3.66	2.33	2.89
SRCPARAM L0043609	0.00000005866	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE49

SRCPARAM L0043610	0.0	3.66	1.40	2.89
SRCPARAM L0043611	0.0	3.66	1.40	2.89
SRCPARAM L0043612	0.0	3.66	1.40	2.89
SRCPARAM L0043613	0.0	3.66	1.40	2.89
SRCPARAM L0043614	0.0	3.66	1.40	2.89
SRCPARAM L0043615	0.0	3.66	1.40	2.89
SRCPARAM L0043616	0.0	3.66	1.40	2.89
SRCPARAM L0043617	0.0	3.66	1.40	2.89
SRCPARAM L0043618	0.0	3.66	1.40	2.89
SRCPARAM L0043619	0.0	3.66	1.40	2.89
SRCPARAM L0043620	0.0	3.66	1.40	2.89
SRCPARAM L0043621	0.0	3.66	1.40	2.89
SRCPARAM L0043622	0.0	3.66	1.40	2.89
SRCPARAM L0043623	0.0	3.66	1.40	2.89
SRCPARAM L0043624	0.0	3.66	1.40	2.89
SRCPARAM L0043625	0.0	3.66	1.40	2.89
SRCPARAM L0043626	0.0	3.66	1.40	2.89
SRCPARAM L0043627	0.0	3.66	1.40	2.89
SRCPARAM L0043628	0.0	3.66	1.40	2.89
SRCPARAM L0043629	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE50

SRCPARAM L0043630	0.0	3.66	1.40	2.89
SRCPARAM L0043631	0.0	3.66	1.40	2.89
SRCPARAM L0043632	0.0	3.66	1.40	2.89
SRCPARAM L0043633	0.0	3.66	1.40	2.89
SRCPARAM L0043634	0.0	3.66	1.40	2.89
SRCPARAM L0043635	0.0	3.66	1.40	2.89
SRCPARAM L0043636	0.0	3.66	1.40	2.89
SRCPARAM L0043637	0.0	3.66	1.40	2.89
SRCPARAM L0043638	0.0	3.66	1.40	2.89
SRCPARAM L0043639	0.0	3.66	1.40	2.89
SRCPARAM L0043640	0.0	3.66	1.40	2.89
SRCPARAM L0043641	0.0	3.66	1.40	2.89

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SRCPARAM L0043642	0.0	3.66	1.40	2.89
SRCPARAM L0043643	0.0	3.66	1.40	2.89
SRCPARAM L0043644	0.0	3.66	1.40	2.89
SRCPARAM L0043645	0.0	3.66	1.40	2.89
SRCPARAM L0043646	0.0	3.66	1.40	2.89
SRCPARAM L0043647	0.0	3.66	1.40	2.89
SRCPARAM L0043648	0.0	3.66	1.40	2.89
SRCPARAM L0043649	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE51

SRCPARAM L0043650	0.0	3.66	1.40	2.89
SRCPARAM L0043651	0.0	3.66	1.40	2.89
SRCPARAM L0043652	0.0	3.66	1.40	2.89
SRCPARAM L0043653	0.0	3.66	1.40	2.89
SRCPARAM L0043654	0.0	3.66	1.40	2.89
SRCPARAM L0043655	0.0	3.66	1.40	2.89
SRCPARAM L0043656	0.0	3.66	1.40	2.89
SRCPARAM L0043657	0.0	3.66	1.40	2.89
SRCPARAM L0043658	0.0	3.66	1.40	2.89
SRCPARAM L0043659	0.0	3.66	1.40	2.89
SRCPARAM L0043660	0.0	3.66	1.40	2.89
SRCPARAM L0043661	0.0	3.66	1.40	2.89
SRCPARAM L0043662	0.0	3.66	1.40	2.89
SRCPARAM L0043663	0.0	3.66	1.40	2.89
SRCPARAM L0043664	0.0	3.66	1.40	2.89
SRCPARAM L0043665	0.0	3.66	1.40	2.89
SRCPARAM L0043666	0.0	3.66	1.40	2.89
SRCPARAM L0043667	0.0	3.66	1.40	2.89
SRCPARAM L0043668	0.0	3.66	1.40	2.89
SRCPARAM L0043669	0.0	3.66	1.40	2.89
SRCPARAM L0043670	0.0	3.66	1.40	2.89
SRCPARAM L0043671	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE52

SRCPARAM L0043672	0.0	3.66	1.40	2.89
SRCPARAM L0043673	0.0	3.66	1.40	2.89
SRCPARAM L0043674	0.0	3.66	1.40	2.89
SRCPARAM L0043675	0.0	3.66	1.40	2.89
SRCPARAM L0043676	0.0	3.66	1.40	2.89
SRCPARAM L0043677	0.0	3.66	1.40	2.89
SRCPARAM L0043678	0.0	3.66	1.40	2.89
SRCPARAM L0043679	0.0	3.66	1.40	2.89
SRCPARAM L0043680	0.0	3.66	1.40	2.89
SRCPARAM L0043681	0.0	3.66	1.40	2.89
SRCPARAM L0043682	0.0	3.66	1.40	2.89
SRCPARAM L0043683	0.0	3.66	1.40	2.89
SRCPARAM L0043684	0.0	3.66	1.40	2.89
SRCPARAM L0043685	0.0	3.66	1.40	2.89

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SRCPARAM L0043686	0.0	3.66	1.40	2.89
SRCPARAM L0043687	0.0	3.66	1.40	2.89
SRCPARAM L0043688	0.0	3.66	1.40	2.89
SRCPARAM L0043689	0.0	3.66	1.40	2.89
SRCPARAM L0043690	0.0	3.66	1.40	2.89
SRCPARAM L0043691	0.0	3.66	1.40	2.89
SRCPARAM L0043692	0.0	3.66	1.40	2.89
SRCPARAM L0043693	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE53

SRCPARAM L0043694	0.0	3.66	1.40	2.89
SRCPARAM L0043695	0.0	3.66	1.40	2.89
SRCPARAM L0043696	0.0	3.66	1.40	2.89
SRCPARAM L0043697	0.0	3.66	1.40	2.89
SRCPARAM L0043698	0.0	3.66	1.40	2.89
SRCPARAM L0043699	0.0	3.66	1.40	2.89
SRCPARAM L0043700	0.0	3.66	1.40	2.89
SRCPARAM L0043701	0.0	3.66	1.40	2.89
SRCPARAM L0043702	0.0	3.66	1.40	2.89
SRCPARAM L0043703	0.0	3.66	1.40	2.89
SRCPARAM L0043704	0.0	3.66	1.40	2.89
SRCPARAM L0043705	0.0	3.66	1.40	2.89
SRCPARAM L0043706	0.0	3.66	1.40	2.89
SRCPARAM L0043707	0.0	3.66	1.40	2.89
SRCPARAM L0043708	0.0	3.66	1.40	2.89
SRCPARAM L0043709	0.0	3.66	1.40	2.89
SRCPARAM L0043710	0.0	3.66	1.40	2.89
SRCPARAM L0043711	0.0	3.66	1.40	2.89
SRCPARAM L0043712	0.0	3.66	1.40	2.89
SRCPARAM L0043713	0.0	3.66	1.40	2.89
SRCPARAM L0043714	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE54

SRCPARAM L0043715	0.0	3.66	1.40	2.89
SRCPARAM L0043716	0.0	3.66	1.40	2.89
SRCPARAM L0043717	0.0	3.66	1.40	2.89
SRCPARAM L0043718	0.0	3.66	1.40	2.89
SRCPARAM L0043719	0.0	3.66	1.40	2.89
SRCPARAM L0043720	0.0	3.66	1.40	2.89
SRCPARAM L0043721	0.0	3.66	1.40	2.89
SRCPARAM L0043722	0.0	3.66	1.40	2.89
SRCPARAM L0043723	0.0	3.66	1.40	2.89
SRCPARAM L0043724	0.0	3.66	1.40	2.89
SRCPARAM L0043725	0.0	3.66	1.40	2.89
SRCPARAM L0043726	0.0	3.66	1.40	2.89
SRCPARAM L0043727	0.0	3.66	1.40	2.89
SRCPARAM L0043728	0.0	3.66	1.40	2.89
SRCPARAM L0043729	0.0	3.66	1.40	2.89

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SRCPARAM L0043730	0.0	3.66	1.40	2.89
SRCPARAM L0043731	0.0	3.66	1.40	2.89
SRCPARAM L0043732	0.0	3.66	1.40	2.89
SRCPARAM L0043733	0.0	3.66	1.40	2.89
SRCPARAM L0043734	0.0	3.66	1.40	2.89
SRCPARAM L0043735	0.0	3.66	1.40	2.89
SRCPARAM L0043736	0.0	3.66	1.40	2.89
SRCPARAM L0043737	0.0	3.66	1.40	2.89
SRCPARAM L0043738	0.0	3.66	1.40	2.89
SRCPARAM L0043739	0.0	3.66	1.40	2.89
SRCPARAM L0043740	0.0	3.66	1.40	2.89
SRCPARAM L0043741	0.0	3.66	1.40	2.89
SRCPARAM L0043742	0.0	3.66	1.40	2.89
SRCPARAM L0043743	0.0	3.66	1.40	2.89
SRCPARAM L0043744	0.0	3.66	1.40	2.89
SRCPARAM L0043745	0.0	3.66	1.40	2.89
SRCPARAM L0043746	0.0	3.66	1.40	2.89
SRCPARAM L0043747	0.0	3.66	1.40	2.89
SRCPARAM L0043748	0.0	3.66	1.40	2.89
SRCPARAM L0043749	0.0	3.66	1.40	2.89
SRCPARAM L0043750	0.0	3.66	1.40	2.89
SRCPARAM L0043751	0.0	3.66	1.40	2.89
SRCPARAM L0043752	0.0	3.66	1.40	2.89
SRCPARAM L0043753	0.0	3.66	1.40	2.89
SRCPARAM L0043754	0.0	3.66	1.40	2.89
SRCPARAM L0043755	0.0	3.66	1.40	2.89
SRCPARAM L0043756	0.0	3.66	1.40	2.89
SRCPARAM L0043757	0.0	3.66	1.40	2.89
SRCPARAM L0043758	0.0	3.66	1.40	2.89
SRCPARAM L0043759	0.0	3.66	1.40	2.89
SRCPARAM L0043760	0.0	3.66	1.40	2.89
SRCPARAM L0043761	0.0	3.66	1.40	2.89
SRCPARAM L0043762	0.0	3.66	1.40	2.89
SRCPARAM L0043763	0.0	3.66	1.40	2.89
SRCPARAM L0043764	0.0	3.66	1.40	2.89
SRCPARAM L0043765	0.0	3.66	1.40	2.89
SRCPARAM L0043766	0.0	3.66	1.40	2.89
SRCPARAM L0043767	0.0	3.66	1.40	2.89
SRCPARAM L0043768	0.0	3.66	1.40	2.89
SRCPARAM L0043769	0.0	3.66	1.40	2.89
SRCPARAM L0043770	0.0	3.66	1.40	2.89
SRCPARAM L0043771	0.0	3.66	1.40	2.89
SRCPARAM L0043772	0.0	3.66	1.40	2.89
SRCPARAM L0043773	0.0	3.66	1.40	2.89
SRCPARAM L0043774	0.0	3.66	1.40	2.89
SRCPARAM L0043775	0.0	3.66	1.40	2.89
SRCPARAM L0043776	0.0	3.66	1.40	2.89
SRCPARAM L0043777	0.0	3.66	1.40	2.89

SOL\_operations\_rev2.ADO

SRCPARAM L0043778	0.0	3.66	1.40	2.89
SRCPARAM L0043779	0.0	3.66	1.40	2.89
SRCPARAM L0043780	0.0	3.66	1.40	2.89
SRCPARAM L0043781	0.0	3.66	1.40	2.89
SRCPARAM L0043782	0.0	3.66	1.40	2.89
SRCPARAM L0043783	0.0	3.66	1.40	2.89
SRCPARAM L0043784	0.0	3.66	1.40	2.89
SRCPARAM L0043785	0.0	3.66	1.40	2.89
SRCPARAM L0043786	0.0	3.66	1.40	2.89
SRCPARAM L0043787	0.0	3.66	1.40	2.89
SRCPARAM L0043788	0.0	3.66	1.40	2.89
SRCPARAM L0043789	0.0	3.66	1.40	2.89
SRCPARAM L0043790	0.0	3.66	1.40	2.89
SRCPARAM L0043791	0.0	3.66	1.40	2.89
SRCPARAM L0043792	0.0	3.66	1.40	2.89
SRCPARAM L0043793	0.0	3.66	1.40	2.89
SRCPARAM L0043794	0.0	3.66	1.40	2.89
SRCPARAM L0043795	0.0	3.66	1.40	2.89
SRCPARAM L0043796	0.0	3.66	1.40	2.89
SRCPARAM L0043797	0.0	3.66	1.40	2.89
SRCPARAM L0043798	0.0	3.66	1.40	2.89
SRCPARAM L0043799	0.0	3.66	1.40	2.89
SRCPARAM L0043800	0.0	3.66	1.40	2.89
SRCPARAM L0043801	0.0	3.66	1.40	2.89
SRCPARAM L0043802	0.0	3.66	1.40	2.89
SRCPARAM L0043803	0.0	3.66	1.40	2.89
SRCPARAM L0043804	0.0	3.66	1.40	2.89
SRCPARAM L0043805	0.0	3.66	1.40	2.89
SRCPARAM L0043806	0.0	3.66	1.40	2.89
SRCPARAM L0043807	0.0	3.66	1.40	2.89
SRCPARAM L0043808	0.0	3.66	1.40	2.89
SRCPARAM L0043809	0.0	3.66	1.40	2.89
SRCPARAM L0043810	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE55

SRCPARAM L0043811	0.0	3.66	1.40	2.89
SRCPARAM L0043812	0.0	3.66	1.40	2.89
SRCPARAM L0043813	0.0	3.66	1.40	2.89
SRCPARAM L0043814	0.0	3.66	1.40	2.89
SRCPARAM L0043815	0.0	3.66	1.40	2.89
SRCPARAM L0043816	0.0	3.66	1.40	2.89
SRCPARAM L0043817	0.0	3.66	1.40	2.89
SRCPARAM L0043818	0.0	3.66	1.40	2.89
SRCPARAM L0043819	0.0	3.66	1.40	2.89
SRCPARAM L0043820	0.0	3.66	1.40	2.89
SRCPARAM L0043821	0.0	3.66	1.40	2.89
SRCPARAM L0043822	0.0	3.66	1.40	2.89
SRCPARAM L0043823	0.0	3.66	1.40	2.89

SOL\_operations\_rev2.ADO

SRCPARAM L0043824	0.0	3.66	1.40	2.89
SRCPARAM L0043825	0.0	3.66	1.40	2.89
SRCPARAM L0043826	0.0	3.66	1.40	2.89
SRCPARAM L0043827	0.0	3.66	1.40	2.89
SRCPARAM L0043828	0.0	3.66	1.40	2.89
SRCPARAM L0043829	0.0	3.66	1.40	2.89
SRCPARAM L0043830	0.0	3.66	1.40	2.89
SRCPARAM L0043831	0.0	3.66	1.40	2.89
SRCPARAM L0043832	0.0	3.66	1.40	2.89
SRCPARAM L0043833	0.0	3.66	1.40	2.89
SRCPARAM L0043834	0.0	3.66	1.40	2.89
SRCPARAM L0043835	0.0	3.66	1.40	2.89
SRCPARAM L0043836	0.0	3.66	1.40	2.89
SRCPARAM L0043837	0.0	3.66	1.40	2.89
SRCPARAM L0043838	0.0	3.66	1.40	2.89
SRCPARAM L0043839	0.0	3.66	1.40	2.89
SRCPARAM L0043840	0.0	3.66	1.40	2.89
SRCPARAM L0043841	0.0	3.66	1.40	2.89
SRCPARAM L0043842	0.0	3.66	1.40	2.89
SRCPARAM L0043843	0.0	3.66	1.40	2.89
SRCPARAM L0043844	0.0	3.66	1.40	2.89
SRCPARAM L0043845	0.0	3.66	1.40	2.89
SRCPARAM L0043846	0.0	3.66	1.40	2.89
SRCPARAM L0043847	0.0	3.66	1.40	2.89
SRCPARAM L0043848	0.0	3.66	1.40	2.89
SRCPARAM L0043849	0.0	3.66	1.40	2.89
SRCPARAM L0043850	0.0	3.66	1.40	2.89
SRCPARAM L0043851	0.0	3.66	1.40	2.89
SRCPARAM L0043852	0.0	3.66	1.40	2.89
SRCPARAM L0043853	0.0	3.66	1.40	2.89
SRCPARAM L0043854	0.0	3.66	1.40	2.89
SRCPARAM L0043855	0.0	3.66	1.40	2.89
SRCPARAM L0043856	0.0	3.66	1.40	2.89
SRCPARAM L0043857	0.0	3.66	1.40	2.89
SRCPARAM L0043858	0.0	3.66	1.40	2.89
SRCPARAM L0043859	0.0	3.66	1.40	2.89
SRCPARAM L0043860	0.0	3.66	1.40	2.89
SRCPARAM L0043861	0.0	3.66	1.40	2.89
SRCPARAM L0043862	0.0	3.66	1.40	2.89
SRCPARAM L0043863	0.0	3.66	1.40	2.89
SRCPARAM L0043864	0.0	3.66	1.40	2.89
SRCPARAM L0043865	0.0	3.66	1.40	2.89
SRCPARAM L0043866	0.0	3.66	1.40	2.89
SRCPARAM L0043867	0.0	3.66	1.40	2.89
SRCPARAM L0043868	0.0	3.66	1.40	2.89
SRCPARAM L0043869	0.0	3.66	1.40	2.89
SRCPARAM L0043870	0.0	3.66	1.40	2.89
SRCPARAM L0043871	0.0	3.66	1.40	2.89

SOL\_operations\_rev2.ADO

SRCPARAM L0043872	0.0	3.66	1.40	2.89
SRCPARAM L0043873	0.0	3.66	1.40	2.89
SRCPARAM L0043874	0.0	3.66	1.40	2.89
SRCPARAM L0043875	0.0	3.66	1.40	2.89
SRCPARAM L0043876	0.0	3.66	1.40	2.89
SRCPARAM L0043877	0.0	3.66	1.40	2.89
SRCPARAM L0043878	0.0	3.66	1.40	2.89
SRCPARAM L0043879	0.0	3.66	1.40	2.89
SRCPARAM L0043880	0.0	3.66	1.40	2.89
SRCPARAM L0043881	0.0	3.66	1.40	2.89
SRCPARAM L0043882	0.0	3.66	1.40	2.89
SRCPARAM L0043883	0.0	3.66	1.40	2.89
SRCPARAM L0043884	0.0	3.66	1.40	2.89
SRCPARAM L0043885	0.0	3.66	1.40	2.89
SRCPARAM L0043886	0.0	3.66	1.40	2.89
SRCPARAM L0043887	0.0	3.66	1.40	2.89
SRCPARAM L0043888	0.0	3.66	1.40	2.89
SRCPARAM L0043889	0.0	3.66	1.40	2.89
SRCPARAM L0043890	0.0	3.66	1.40	2.89
SRCPARAM L0043891	0.0	3.66	1.40	2.89
SRCPARAM L0043892	0.0	3.66	1.40	2.89
SRCPARAM L0043893	0.0	3.66	1.40	2.89
SRCPARAM L0043894	0.0	3.66	1.40	2.89
SRCPARAM L0043895	0.0	3.66	1.40	2.89
SRCPARAM L0043896	0.0	3.66	1.40	2.89
SRCPARAM L0043897	0.0	3.66	1.40	2.89
SRCPARAM L0043898	0.0	3.66	1.40	2.89
SRCPARAM L0043899	0.0	3.66	1.40	2.89
SRCPARAM L0043900	0.0	3.66	1.40	2.89
SRCPARAM L0043901	0.0	3.66	1.40	2.89
SRCPARAM L0043902	0.0	3.66	1.40	2.89
SRCPARAM L0043903	0.0	3.66	1.40	2.89
SRCPARAM L0043904	0.0	3.66	1.40	2.89
SRCPARAM L0043905	0.0	3.66	1.40	2.89
SRCPARAM L0043906	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE56

SRCPARAM L0043907	0.0	3.66	1.40	2.89
SRCPARAM L0043908	0.0	3.66	1.40	2.89
SRCPARAM L0043909	0.0	3.66	1.40	2.89
SRCPARAM L0043910	0.0	3.66	1.40	2.89
SRCPARAM L0043911	0.0	3.66	1.40	2.89
SRCPARAM L0043912	0.0	3.66	1.40	2.89
SRCPARAM L0043913	0.0	3.66	1.40	2.89
SRCPARAM L0043914	0.0	3.66	1.40	2.89
SRCPARAM L0043915	0.0	3.66	1.40	2.89
SRCPARAM L0043916	0.0	3.66	1.40	2.89
SRCPARAM L0043917	0.0	3.66	1.40	2.89

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SRCPARAM L0043918	0.0	3.66	1.40	2.89
SRCPARAM L0043919	0.0	3.66	1.40	2.89
SRCPARAM L0043920	0.0	3.66	1.40	2.89
SRCPARAM L0043921	0.0	3.66	1.40	2.89
SRCPARAM L0043922	0.0	3.66	1.40	2.89
SRCPARAM L0043923	0.0	3.66	1.40	2.89
SRCPARAM L0043924	0.0	3.66	1.40	2.89
SRCPARAM L0043925	0.0	3.66	1.40	2.89
SRCPARAM L0043926	0.0	3.66	1.40	2.89
SRCPARAM L0043927	0.0	3.66	1.40	2.89
SRCPARAM L0043928	0.0	3.66	1.40	2.89
SRCPARAM L0043929	0.0	3.66	1.40	2.89
SRCPARAM L0043930	0.0	3.66	1.40	2.89
SRCPARAM L0043931	0.0	3.66	1.40	2.89
SRCPARAM L0043932	0.0	3.66	1.40	2.89
SRCPARAM L0043933	0.0	3.66	1.40	2.89
SRCPARAM L0043934	0.0	3.66	1.40	2.89
SRCPARAM L0043935	0.0	3.66	1.40	2.89
SRCPARAM L0043936	0.0	3.66	1.40	2.89
SRCPARAM L0043937	0.0	3.66	1.40	2.89
SRCPARAM L0043938	0.0	3.66	1.40	2.89
SRCPARAM L0043939	0.0	3.66	1.40	2.89
SRCPARAM L0043940	0.0	3.66	1.40	2.89
SRCPARAM L0043941	0.0	3.66	1.40	2.89
SRCPARAM L0043942	0.0	3.66	1.40	2.89
SRCPARAM L0043943	0.0	3.66	1.40	2.89
SRCPARAM L0043944	0.0	3.66	1.40	2.89
SRCPARAM L0043945	0.0	3.66	1.40	2.89
SRCPARAM L0043946	0.0	3.66	1.40	2.89
SRCPARAM L0043947	0.0	3.66	1.40	2.89
SRCPARAM L0043948	0.0	3.66	1.40	2.89
SRCPARAM L0043949	0.0	3.66	1.40	2.89
SRCPARAM L0043950	0.0	3.66	1.40	2.89
SRCPARAM L0043951	0.0	3.66	1.40	2.89
SRCPARAM L0043952	0.0	3.66	1.40	2.89
SRCPARAM L0043953	0.0	3.66	1.40	2.89
SRCPARAM L0043954	0.0	3.66	1.40	2.89
SRCPARAM L0043955	0.0	3.66	1.40	2.89
SRCPARAM L0043956	0.0	3.66	1.40	2.89
SRCPARAM L0043957	0.0	3.66	1.40	2.89
SRCPARAM L0043958	0.0	3.66	1.40	2.89
SRCPARAM L0043959	0.0	3.66	1.40	2.89
SRCPARAM L0043960	0.0	3.66	1.40	2.89
SRCPARAM L0043961	0.0	3.66	1.40	2.89
SRCPARAM L0043962	0.0	3.66	1.40	2.89
SRCPARAM L0043963	0.0	3.66	1.40	2.89
SRCPARAM L0043964	0.0	3.66	1.40	2.89
SRCPARAM L0043965	0.0	3.66	1.40	2.89



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SRCPARAM L0043966	0.0	3.66	1.40	2.89
SRCPARAM L0043967	0.0	3.66	1.40	2.89
SRCPARAM L0043968	0.0	3.66	1.40	2.89
SRCPARAM L0043969	0.0	3.66	1.40	2.89
SRCPARAM L0043970	0.0	3.66	1.40	2.89
SRCPARAM L0043971	0.0	3.66	1.40	2.89
SRCPARAM L0043972	0.0	3.66	1.40	2.89
SRCPARAM L0043973	0.0	3.66	1.40	2.89
SRCPARAM L0043974	0.0	3.66	1.40	2.89
SRCPARAM L0043975	0.0	3.66	1.40	2.89
SRCPARAM L0043976	0.0	3.66	1.40	2.89
SRCPARAM L0043977	0.0	3.66	1.40	2.89
SRCPARAM L0043978	0.0	3.66	1.40	2.89
SRCPARAM L0043979	0.0	3.66	1.40	2.89
SRCPARAM L0043980	0.0	3.66	1.40	2.89
SRCPARAM L0043981	0.0	3.66	1.40	2.89
SRCPARAM L0043982	0.0	3.66	1.40	2.89
SRCPARAM L0043983	0.0	3.66	1.40	2.89
SRCPARAM L0043984	0.0	3.66	1.40	2.89
SRCPARAM L0043985	0.0	3.66	1.40	2.89
SRCPARAM L0043986	0.0	3.66	1.40	2.89
SRCPARAM L0043987	0.0	3.66	1.40	2.89
SRCPARAM L0043988	0.0	3.66	1.40	2.89
SRCPARAM L0043989	0.0	3.66	1.40	2.89
SRCPARAM L0043990	0.0	3.66	1.40	2.89
SRCPARAM L0043991	0.0	3.66	1.40	2.89
SRCPARAM L0043992	0.0	3.66	1.40	2.89
SRCPARAM L0043993	0.0	3.66	1.40	2.89
SRCPARAM L0043994	0.0	3.66	1.40	2.89
SRCPARAM L0043995	0.0	3.66	1.40	2.89
SRCPARAM L0043996	0.0	3.66	1.40	2.89
SRCPARAM L0043997	0.0	3.66	1.40	2.89
SRCPARAM L0043998	0.0	3.66	1.40	2.89
SRCPARAM L0043999	0.0	3.66	1.40	2.89
SRCPARAM L0044000	0.0	3.66	1.40	2.89
SRCPARAM L0044001	0.0	3.66	1.40	2.89
SRCPARAM L0044002	0.0	3.66	1.40	2.89
SRCPARAM L0044003	0.0	3.66	1.40	2.89
SRCPARAM L0044004	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE57

SRCPARAM L0044005	0.0	3.66	1.40	2.89
SRCPARAM L0044006	0.0	3.66	1.40	2.89
SRCPARAM L0044007	0.0	3.66	1.40	2.89
SRCPARAM L0044008	0.0	3.66	1.40	2.89
SRCPARAM L0044009	0.0	3.66	1.40	2.89
SRCPARAM L0044010	0.0	3.66	1.40	2.89
SRCPARAM L0044011	0.0	3.66	1.40	2.89

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SRCPARAM L0044012	0.0	3.66	1.40	2.89
SRCPARAM L0044013	0.0	3.66	1.40	2.89
SRCPARAM L0044014	0.0	3.66	1.40	2.89
SRCPARAM L0044015	0.0	3.66	1.40	2.89
SRCPARAM L0044016	0.0	3.66	1.40	2.89
SRCPARAM L0044017	0.0	3.66	1.40	2.89
SRCPARAM L0044018	0.0	3.66	1.40	2.89
SRCPARAM L0044019	0.0	3.66	1.40	2.89
SRCPARAM L0044020	0.0	3.66	1.40	2.89
SRCPARAM L0044021	0.0	3.66	1.40	2.89
SRCPARAM L0044022	0.0	3.66	1.40	2.89
SRCPARAM L0044023	0.0	3.66	1.40	2.89
SRCPARAM L0044024	0.0	3.66	1.40	2.89
SRCPARAM L0044025	0.0	3.66	1.40	2.89
SRCPARAM L0044026	0.0	3.66	1.40	2.89
SRCPARAM L0044027	0.0	3.66	1.40	2.89
SRCPARAM L0044028	0.0	3.66	1.40	2.89
SRCPARAM L0044029	0.0	3.66	1.40	2.89
SRCPARAM L0044030	0.0	3.66	1.40	2.89
SRCPARAM L0044031	0.0	3.66	1.40	2.89
SRCPARAM L0044032	0.0	3.66	1.40	2.89
SRCPARAM L0044033	0.0	3.66	1.40	2.89
SRCPARAM L0044034	0.0	3.66	1.40	2.89
SRCPARAM L0044035	0.0	3.66	1.40	2.89
SRCPARAM L0044036	0.0	3.66	1.40	2.89
SRCPARAM L0044037	0.0	3.66	1.40	2.89
SRCPARAM L0044038	0.0	3.66	1.40	2.89
SRCPARAM L0044039	0.0	3.66	1.40	2.89
SRCPARAM L0044040	0.0	3.66	1.40	2.89
SRCPARAM L0044041	0.0	3.66	1.40	2.89
SRCPARAM L0044042	0.0	3.66	1.40	2.89
SRCPARAM L0044043	0.0	3.66	1.40	2.89
SRCPARAM L0044044	0.0	3.66	1.40	2.89
SRCPARAM L0044045	0.0	3.66	1.40	2.89
SRCPARAM L0044046	0.0	3.66	1.40	2.89
SRCPARAM L0044047	0.0	3.66	1.40	2.89
SRCPARAM L0044048	0.0	3.66	1.40	2.89
SRCPARAM L0044049	0.0	3.66	1.40	2.89
SRCPARAM L0044050	0.0	3.66	1.40	2.89
SRCPARAM L0044051	0.0	3.66	1.40	2.89
SRCPARAM L0044052	0.0	3.66	1.40	2.89
SRCPARAM L0044053	0.0	3.66	1.40	2.89
SRCPARAM L0044054	0.0	3.66	1.40	2.89
SRCPARAM L0044055	0.0	3.66	1.40	2.89
SRCPARAM L0044056	0.0	3.66	1.40	2.89
SRCPARAM L0044057	0.0	3.66	1.40	2.89
SRCPARAM L0044058	0.0	3.66	1.40	2.89
SRCPARAM L0044059	0.0	3.66	1.40	2.89

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SRCPARAM L0044060	0.0	3.66	1.40	2.89
SRCPARAM L0044061	0.0	3.66	1.40	2.89
SRCPARAM L0044062	0.0	3.66	1.40	2.89
SRCPARAM L0044063	0.0	3.66	1.40	2.89
SRCPARAM L0044064	0.0	3.66	1.40	2.89
SRCPARAM L0044065	0.0	3.66	1.40	2.89
SRCPARAM L0044066	0.0	3.66	1.40	2.89
SRCPARAM L0044067	0.0	3.66	1.40	2.89
SRCPARAM L0044068	0.0	3.66	1.40	2.89
SRCPARAM L0044069	0.0	3.66	1.40	2.89
SRCPARAM L0044070	0.0	3.66	1.40	2.89
SRCPARAM L0044071	0.0	3.66	1.40	2.89
SRCPARAM L0044072	0.0	3.66	1.40	2.89
SRCPARAM L0044073	0.0	3.66	1.40	2.89
SRCPARAM L0044074	0.0	3.66	1.40	2.89
SRCPARAM L0044075	0.0	3.66	1.40	2.89
SRCPARAM L0044076	0.0	3.66	1.40	2.89
SRCPARAM L0044077	0.0	3.66	1.40	2.89
SRCPARAM L0044078	0.0	3.66	1.40	2.89
SRCPARAM L0044079	0.0	3.66	1.40	2.89
SRCPARAM L0044080	0.0	3.66	1.40	2.89
SRCPARAM L0044081	0.0	3.66	1.40	2.89
SRCPARAM L0044082	0.0	3.66	1.40	2.89
SRCPARAM L0044083	0.0	3.66	1.40	2.89
SRCPARAM L0044084	0.0	3.66	1.40	2.89
SRCPARAM L0044085	0.0	3.66	1.40	2.89
SRCPARAM L0044086	0.0	3.66	1.40	2.89
SRCPARAM L0044087	0.0	3.66	1.40	2.89
SRCPARAM L0044088	0.0	3.66	1.40	2.89
SRCPARAM L0044089	0.0	3.66	1.40	2.89
SRCPARAM L0044090	0.0	3.66	1.40	2.89
SRCPARAM L0044091	0.0	3.66	1.40	2.89
SRCPARAM L0044092	0.0	3.66	1.40	2.89
SRCPARAM L0044093	0.0	3.66	1.40	2.89
SRCPARAM L0044094	0.0	3.66	1.40	2.89
SRCPARAM L0044095	0.0	3.66	1.40	2.89
SRCPARAM L0044096	0.0	3.66	1.40	2.89
SRCPARAM L0044097	0.0	3.66	1.40	2.89
SRCPARAM L0044098	0.0	3.66	1.40	2.89
SRCPARAM L0044099	0.0	3.66	1.40	2.89
SRCPARAM L0044100	0.0	3.66	1.40	2.89
SRCPARAM L0044101	0.0	3.66	1.40	2.89
SRCPARAM L0044102	0.0	3.66	1.40	2.89
SRCPARAM L0044103	0.0	3.66	1.40	2.89
SRCPARAM L0044104	0.0	3.66	1.40	2.89
SRCPARAM L0044105	0.0	3.66	1.40	2.89
SRCPARAM L0044106	0.0	3.66	1.40	2.89
SRCPARAM L0044107	0.0	3.66	1.40	2.89

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SRCPARAM L0044108	0.0	3.66	1.40	2.89
SRCPARAM L0044109	0.0	3.66	1.40	2.89
SRCPARAM L0044110	0.0	3.66	1.40	2.89
SRCPARAM L0044111	0.0	3.66	1.40	2.89
SRCPARAM L0044112	0.0	3.66	1.40	2.89
SRCPARAM L0044113	0.0	3.66	1.40	2.89
SRCPARAM L0044114	0.0	3.66	1.40	2.89
SRCPARAM L0044115	0.0	3.66	1.40	2.89
SRCPARAM L0044116	0.0	3.66	1.40	2.89
SRCPARAM L0044117	0.0	3.66	1.40	2.89
SRCPARAM L0044118	0.0	3.66	1.40	2.89
SRCPARAM L0044119	0.0	3.66	1.40	2.89
SRCPARAM L0044120	0.0	3.66	1.40	2.89
SRCPARAM L0044121	0.0	3.66	1.40	2.89
SRCPARAM L0044122	0.0	3.66	1.40	2.89
SRCPARAM L0044123	0.0	3.66	1.40	2.89
SRCPARAM L0044124	0.0	3.66	1.40	2.89
SRCPARAM L0044125	0.0	3.66	1.40	2.89
SRCPARAM L0044126	0.0	3.66	1.40	2.89
SRCPARAM L0044127	0.0	3.66	1.40	2.89
SRCPARAM L0044128	0.0	3.66	1.40	2.89
SRCPARAM L0044129	0.0	3.66	1.40	2.89
SRCPARAM L0044130	0.0	3.66	1.40	2.89
SRCPARAM L0044131	0.0	3.66	1.40	2.89
SRCPARAM L0044132	0.0	3.66	1.40	2.89
SRCPARAM L0044133	0.0	3.66	1.40	2.89
SRCPARAM L0044134	0.0	3.66	1.40	2.89
SRCPARAM L0044135	0.0	3.66	1.40	2.89
SRCPARAM L0044136	0.0	3.66	1.40	2.89
SRCPARAM L0044137	0.0	3.66	1.40	2.89
SRCPARAM L0044138	0.0	3.66	1.40	2.89
SRCPARAM L0044139	0.0	3.66	1.40	2.89
SRCPARAM L0044140	0.0	3.66	1.40	2.89
SRCPARAM L0044141	0.0	3.66	1.40	2.89
SRCPARAM L0044142	0.0	3.66	1.40	2.89
SRCPARAM L0044143	0.0	3.66	1.40	2.89
SRCPARAM L0044144	0.0	3.66	1.40	2.89
SRCPARAM L0044145	0.0	3.66	1.40	2.89
SRCPARAM L0044146	0.0	3.66	1.40	2.89
SRCPARAM L0044147	0.0	3.66	1.40	2.89
SRCPARAM L0044148	0.0	3.66	1.40	2.89
SRCPARAM L0044149	0.0	3.66	1.40	2.89
SRCPARAM L0044150	0.0	3.66	1.40	2.89
SRCPARAM L0044151	0.0	3.66	1.40	2.89
SRCPARAM L0044152	0.0	3.66	1.40	2.89
SRCPARAM L0044153	0.0	3.66	1.40	2.89
SRCPARAM L0044154	0.0	3.66	1.40	2.89
SRCPARAM L0044155	0.0	3.66	1.40	2.89

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SRCPARAM L0044156	0.0	3.66	1.40	2.89
SRCPARAM L0044157	0.0	3.66	1.40	2.89
SRCPARAM L0044158	0.0	3.66	1.40	2.89
SRCPARAM L0044159	0.0	3.66	1.40	2.89
SRCPARAM L0044160	0.0	3.66	1.40	2.89
SRCPARAM L0044161	0.0	3.66	1.40	2.89
SRCPARAM L0044162	0.0	3.66	1.40	2.89
SRCPARAM L0044163	0.0	3.66	1.40	2.89
SRCPARAM L0044164	0.0	3.66	1.40	2.89
SRCPARAM L0044165	0.0	3.66	1.40	2.89
SRCPARAM L0044166	0.0	3.66	1.40	2.89
SRCPARAM L0044167	0.0	3.66	1.40	2.89
SRCPARAM L0044168	0.0	3.66	1.40	2.89
SRCPARAM L0044169	0.0	3.66	1.40	2.89
SRCPARAM L0044170	0.0	3.66	1.40	2.89

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SRCPARAM L0044171	0.0	3.66	1.40	2.89
SRCPARAM L0044172	0.0	3.66	1.40	2.89
SRCPARAM L0044173	0.0	3.66	1.40	2.89
SRCPARAM L0044174	0.0	3.66	1.40	2.89
SRCPARAM L0044175	0.0	3.66	1.40	2.89
SRCPARAM L0044176	0.0	3.66	1.40	2.89
SRCPARAM L0044177	0.0	3.66	1.40	2.89
SRCPARAM L0044178	0.0	3.66	1.40	2.89
SRCPARAM L0044179	0.0	3.66	1.40	2.89
SRCPARAM L0044180	0.0	3.66	1.40	2.89
SRCPARAM L0044181	0.0	3.66	1.40	2.89
SRCPARAM L0044182	0.0	3.66	1.40	2.89
SRCPARAM L0044183	0.0	3.66	1.40	2.89
SRCPARAM L0044184	0.0	3.66	1.40	2.89
SRCPARAM L0044185	0.0	3.66	1.40	2.89
SRCPARAM L0044186	0.0	3.66	1.40	2.89
SRCPARAM L0044187	0.0	3.66	1.40	2.89
SRCPARAM L0044188	0.0	3.66	1.40	2.89
SRCPARAM L0044189	0.0	3.66	1.40	2.89
SRCPARAM L0044190	0.0	3.66	1.40	2.89
SRCPARAM L0044191	0.0	3.66	1.40	2.89
SRCPARAM L0044192	0.0	3.66	1.40	2.89
SRCPARAM L0044193	0.0	3.66	1.40	2.89
SRCPARAM L0044194	0.0	3.66	1.40	2.89
SRCPARAM L0044195	0.0	3.66	1.40	2.89
SRCPARAM L0044196	0.0	3.66	1.40	2.89
SRCPARAM L0044197	0.0	3.66	1.40	2.89
SRCPARAM L0044198	0.0	3.66	1.40	2.89
SRCPARAM L0044199	0.0	3.66	1.40	2.89
SRCPARAM L0044200	0.0	3.66	1.40	2.89
SRCPARAM L0044201	0.0	3.66	1.40	2.89

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SRCPARAM L0044202	0.0	3.66	1.40	2.89
SRCPARAM L0044203	0.0	3.66	1.40	2.89
SRCPARAM L0044204	0.0	3.66	1.40	2.89
SRCPARAM L0044205	0.0	3.66	1.40	2.89
SRCPARAM L0044206	0.0	3.66	1.40	2.89
SRCPARAM L0044207	0.0	3.66	1.40	2.89
SRCPARAM L0044208	0.0	3.66	1.40	2.89
SRCPARAM L0044209	0.0	3.66	1.40	2.89
SRCPARAM L0044210	0.0	3.66	1.40	2.89
SRCPARAM L0044211	0.0	3.66	1.40	2.89
SRCPARAM L0044212	0.0	3.66	1.40	2.89
SRCPARAM L0044213	0.0	3.66	1.40	2.89
SRCPARAM L0044214	0.0	3.66	1.40	2.89
SRCPARAM L0044215	0.0	3.66	1.40	2.89
SRCPARAM L0044216	0.0	3.66	1.40	2.89
SRCPARAM L0044217	0.0	3.66	1.40	2.89
SRCPARAM L0044218	0.0	3.66	1.40	2.89
SRCPARAM L0044219	0.0	3.66	1.40	2.89
SRCPARAM L0044220	0.0	3.66	1.40	2.89
SRCPARAM L0044221	0.0	3.66	1.40	2.89
SRCPARAM L0044222	0.0	3.66	1.40	2.89
SRCPARAM L0044223	0.0	3.66	1.40	2.89
SRCPARAM L0044224	0.0	3.66	1.40	2.89
SRCPARAM L0044225	0.0	3.66	1.40	2.89
SRCPARAM L0044226	0.0	3.66	1.40	2.89
SRCPARAM L0044227	0.0	3.66	1.40	2.89
SRCPARAM L0044228	0.0	3.66	1.40	2.89
SRCPARAM L0044229	0.0	3.66	1.40	2.89
SRCPARAM L0044230	0.0	3.66	1.40	2.89
SRCPARAM L0044231	0.0	3.66	1.40	2.89
SRCPARAM L0044232	0.0	3.66	1.40	2.89
SRCPARAM L0044233	0.0	3.66	1.40	2.89
SRCPARAM L0044234	0.0	3.66	1.40	2.89
SRCPARAM L0044235	0.0	3.66	1.40	2.89
SRCPARAM L0044236	0.0	3.66	1.40	2.89
SRCPARAM L0044237	0.0	3.66	1.40	2.89
SRCPARAM L0044238	0.0	3.66	1.40	2.89
SRCPARAM L0044239	0.0	3.66	1.40	2.89
SRCPARAM L0044240	0.0	3.66	1.40	2.89
SRCPARAM L0044241	0.0	3.66	1.40	2.89
SRCPARAM L0044242	0.0	3.66	1.40	2.89
SRCPARAM L0044243	0.0	3.66	1.40	2.89
SRCPARAM L0044244	0.0	3.66	1.40	2.89
SRCPARAM L0044245	0.0	3.66	1.40	2.89
SRCPARAM L0044246	0.0	3.66	1.40	2.89
SRCPARAM L0044247	0.0	3.66	1.40	2.89
SRCPARAM L0044248	0.0	3.66	1.40	2.89
SRCPARAM L0044249	0.0	3.66	1.40	2.89

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SRCPARAM L0044250	0.0	3.66	1.40	2.89
SRCPARAM L0044251	0.0	3.66	1.40	2.89
SRCPARAM L0044252	0.0	3.66	1.40	2.89
SRCPARAM L0044253	0.0	3.66	1.40	2.89
SRCPARAM L0044254	0.0	3.66	1.40	2.89
SRCPARAM L0044255	0.0	3.66	1.40	2.89
SRCPARAM L0044256	0.0	3.66	1.40	2.89
SRCPARAM L0044257	0.0	3.66	1.40	2.89
SRCPARAM L0044258	0.0	3.66	1.40	2.89
SRCPARAM L0044259	0.0	3.66	1.40	2.89
SRCPARAM L0044260	0.0	3.66	1.40	2.89
SRCPARAM L0044261	0.0	3.66	1.40	2.89
SRCPARAM L0044262	0.0	3.66	1.40	2.89
SRCPARAM L0044263	0.0	3.66	1.40	2.89
SRCPARAM L0044264	0.0	3.66	1.40	2.89
SRCPARAM L0044265	0.0	3.66	1.40	2.89
SRCPARAM L0044266	0.0	3.66	1.40	2.89
SRCPARAM L0044267	0.0	3.66	1.40	2.89
SRCPARAM L0044268	0.0	3.66	1.40	2.89
SRCPARAM L0044269	0.0	3.66	1.40	2.89
SRCPARAM L0044270	0.0	3.66	1.40	2.89
SRCPARAM L0044271	0.0	3.66	1.40	2.89
SRCPARAM L0044272	0.0	3.66	1.40	2.89
SRCPARAM L0044273	0.0	3.66	1.40	2.89
SRCPARAM L0044274	0.0	3.66	1.40	2.89
SRCPARAM L0044275	0.0	3.66	1.40	2.89
SRCPARAM L0044276	0.0	3.66	1.40	2.89
SRCPARAM L0044277	0.0	3.66	1.40	2.89
SRCPARAM L0044278	0.0	3.66	1.40	2.89
SRCPARAM L0044279	0.0	3.66	1.40	2.89
SRCPARAM L0044280	0.0	3.66	1.40	2.89
SRCPARAM L0044281	0.0	3.66	1.40	2.89
SRCPARAM L0044282	0.0	3.66	1.40	2.89
SRCPARAM L0044283	0.0	3.66	1.40	2.89
SRCPARAM L0044284	0.0	3.66	1.40	2.89
SRCPARAM L0044285	0.0	3.66	1.40	2.89
SRCPARAM L0044286	0.0	3.66	1.40	2.89
SRCPARAM L0044287	0.0	3.66	1.40	2.89
SRCPARAM L0044288	0.0	3.66	1.40	2.89
SRCPARAM L0044289	0.0	3.66	1.40	2.89
SRCPARAM L0044290	0.0	3.66	1.40	2.89
SRCPARAM L0044291	0.0	3.66	1.40	2.89
SRCPARAM L0044292	0.0	3.66	1.40	2.89
SRCPARAM L0044293	0.0	3.66	1.40	2.89
SRCPARAM L0044294	0.0	3.66	1.40	2.89
SRCPARAM L0044295	0.0	3.66	1.40	2.89
SRCPARAM L0044296	0.0	3.66	1.40	2.89
SRCPARAM L0044297	0.0	3.66	1.40	2.89

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SRCPARAM L0044298	0.0	3.66	1.40	2.89
SRCPARAM L0044299	0.0	3.66	1.40	2.89
SRCPARAM L0044300	0.0	3.66	1.40	2.89
SRCPARAM L0044301	0.0	3.66	1.40	2.89
SRCPARAM L0044302	0.0	3.66	1.40	2.89
SRCPARAM L0044303	0.0	3.66	1.40	2.89
SRCPARAM L0044304	0.0	3.66	1.40	2.89
SRCPARAM L0044305	0.0	3.66	1.40	2.89
SRCPARAM L0044306	0.0	3.66	1.40	2.89
SRCPARAM L0044307	0.0	3.66	1.40	2.89
SRCPARAM L0044308	0.0	3.66	1.40	2.89
SRCPARAM L0044309	0.0	3.66	1.40	2.89
SRCPARAM L0044310	0.0	3.66	1.40	2.89
SRCPARAM L0044311	0.0	3.66	1.40	2.89
SRCPARAM L0044312	0.0	3.66	1.40	2.89
SRCPARAM L0044313	0.0	3.66	1.40	2.89
SRCPARAM L0044314	0.0	3.66	1.40	2.89
SRCPARAM L0044315	0.0	3.66	1.40	2.89
SRCPARAM L0044316	0.0	3.66	1.40	2.89
SRCPARAM L0044317	0.0	3.66	1.40	2.89
SRCPARAM L0044318	0.0	3.66	1.40	2.89
SRCPARAM L0044319	0.0	3.66	1.40	2.89
SRCPARAM L0044320	0.0	3.66	1.40	2.89
SRCPARAM L0044321	0.0	3.66	1.40	2.89
SRCPARAM L0044322	0.0	3.66	1.40	2.89
SRCPARAM L0044323	0.0	3.66	1.40	2.89
SRCPARAM L0044324	0.0	3.66	1.40	2.89
SRCPARAM L0044325	0.0	3.66	1.40	2.89
SRCPARAM L0044326	0.0	3.66	1.40	2.89
SRCPARAM L0044327	0.0	3.66	1.40	2.89
SRCPARAM L0044328	0.0	3.66	1.40	2.89
SRCPARAM L0044329	0.0	3.66	1.40	2.89
SRCPARAM L0044330	0.0	3.66	1.40	2.89
SRCPARAM L0044331	0.0	3.66	1.40	2.89
SRCPARAM L0044332	0.0	3.66	1.40	2.89
SRCPARAM L0044333	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE59

SRCPARAM L0044334	0.0	3.66	1.40	2.89
SRCPARAM L0044335	0.0	3.66	1.40	2.89
SRCPARAM L0044336	0.0	3.66	1.40	2.89
SRCPARAM L0044337	0.0	3.66	1.40	2.89
SRCPARAM L0044338	0.0	3.66	1.40	2.89
SRCPARAM L0044339	0.0	3.66	1.40	2.89
SRCPARAM L0044340	0.0	3.66	1.40	2.89
SRCPARAM L0044341	0.0	3.66	1.40	2.89
SRCPARAM L0044342	0.0	3.66	1.40	2.89
SRCPARAM L0044343	0.0	3.66	1.40	2.89



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SRCPARAM L0044344	0.0	3.66	1.40	2.89
SRCPARAM L0044345	0.0	3.66	1.40	2.89
SRCPARAM L0044346	0.0	3.66	1.40	2.89
SRCPARAM L0044347	0.0	3.66	1.40	2.89
SRCPARAM L0044348	0.0	3.66	1.40	2.89
SRCPARAM L0044349	0.0	3.66	1.40	2.89
SRCPARAM L0044350	0.0	3.66	1.40	2.89
SRCPARAM L0044351	0.0	3.66	1.40	2.89
SRCPARAM L0044352	0.0	3.66	1.40	2.89
SRCPARAM L0044353	0.0	3.66	1.40	2.89
SRCPARAM L0044354	0.0	3.66	1.40	2.89
SRCPARAM L0044355	0.0	3.66	1.40	2.89
SRCPARAM L0044356	0.0	3.66	1.40	2.89
SRCPARAM L0044357	0.0	3.66	1.40	2.89
SRCPARAM L0044358	0.0	3.66	1.40	2.89
SRCPARAM L0044359	0.0	3.66	1.40	2.89
SRCPARAM L0044360	0.0	3.66	1.40	2.89
SRCPARAM L0044361	0.0	3.66	1.40	2.89
SRCPARAM L0044362	0.0	3.66	1.40	2.89
SRCPARAM L0044363	0.0	3.66	1.40	2.89
SRCPARAM L0044364	0.0	3.66	1.40	2.89
SRCPARAM L0044365	0.0	3.66	1.40	2.89
SRCPARAM L0044366	0.0	3.66	1.40	2.89
SRCPARAM L0044367	0.0	3.66	1.40	2.89
SRCPARAM L0044368	0.0	3.66	1.40	2.89
SRCPARAM L0044369	0.0	3.66	1.40	2.89
SRCPARAM L0044370	0.0	3.66	1.40	2.89
SRCPARAM L0044371	0.0	3.66	1.40	2.89
SRCPARAM L0044372	0.0	3.66	1.40	2.89
SRCPARAM L0044373	0.0	3.66	1.40	2.89
SRCPARAM L0044374	0.0	3.66	1.40	2.89
SRCPARAM L0044375	0.0	3.66	1.40	2.89
SRCPARAM L0044376	0.0	3.66	1.40	2.89
SRCPARAM L0044377	0.0	3.66	1.40	2.89
SRCPARAM L0044378	0.0	3.66	1.40	2.89
SRCPARAM L0044379	0.0	3.66	1.40	2.89
SRCPARAM L0044380	0.0	3.66	1.40	2.89
SRCPARAM L0044381	0.0	3.66	1.40	2.89
SRCPARAM L0044382	0.0	3.66	1.40	2.89
SRCPARAM L0044383	0.0	3.66	1.40	2.89
SRCPARAM L0044384	0.0	3.66	1.40	2.89
SRCPARAM L0044385	0.0	3.66	1.40	2.89
SRCPARAM L0044386	0.0	3.66	1.40	2.89
SRCPARAM L0044387	0.0	3.66	1.40	2.89
SRCPARAM L0044388	0.0	3.66	1.40	2.89
SRCPARAM L0044389	0.0	3.66	1.40	2.89
SRCPARAM L0044390	0.0	3.66	1.40	2.89
SRCPARAM L0044391	0.0	3.66	1.40	2.89

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SRCPARAM L0044392	0.0	3.66	1.40	2.89
SRCPARAM L0044393	0.0	3.66	1.40	2.89
SRCPARAM L0044394	0.0	3.66	1.40	2.89
SRCPARAM L0044395	0.0	3.66	1.40	2.89
SRCPARAM L0044396	0.0	3.66	1.40	2.89
SRCPARAM L0044397	0.0	3.66	1.40	2.89
SRCPARAM L0044398	0.0	3.66	1.40	2.89
SRCPARAM L0044399	0.0	3.66	1.40	2.89
SRCPARAM L0044400	0.0	3.66	1.40	2.89
SRCPARAM L0044401	0.0	3.66	1.40	2.89
SRCPARAM L0044402	0.0	3.66	1.40	2.89
SRCPARAM L0044403	0.0	3.66	1.40	2.89
SRCPARAM L0044404	0.0	3.66	1.40	2.89
SRCPARAM L0044405	0.0	3.66	1.40	2.89
SRCPARAM L0044406	0.0	3.66	1.40	2.89
SRCPARAM L0044407	0.0	3.66	1.40	2.89
SRCPARAM L0044408	0.0	3.66	1.40	2.89
SRCPARAM L0044409	0.0	3.66	1.40	2.89
SRCPARAM L0044410	0.0	3.66	1.40	2.89
SRCPARAM L0044411	0.0	3.66	1.40	2.89
SRCPARAM L0044412	0.0	3.66	1.40	2.89
SRCPARAM L0044413	0.0	3.66	1.40	2.89
SRCPARAM L0044414	0.0	3.66	1.40	2.89
SRCPARAM L0044415	0.0	3.66	1.40	2.89
SRCPARAM L0044416	0.0	3.66	1.40	2.89
SRCPARAM L0044417	0.0	3.66	1.40	2.89

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SRCPARAM L0044418	0.0	3.66	1.40	2.89
SRCPARAM L0044419	0.0	3.66	1.40	2.89
SRCPARAM L0044420	0.0	3.66	1.40	2.89
SRCPARAM L0044421	0.0	3.66	1.40	2.89
SRCPARAM L0044422	0.0	3.66	1.40	2.89
SRCPARAM L0044423	0.0	3.66	1.40	2.89
SRCPARAM L0044424	0.0	3.66	1.40	2.89
SRCPARAM L0044425	0.0	3.66	1.40	2.89
SRCPARAM L0044426	0.0	3.66	1.40	2.89
SRCPARAM L0044427	0.0	3.66	1.40	2.89
SRCPARAM L0044428	0.0	3.66	1.40	2.89
SRCPARAM L0044429	0.0	3.66	1.40	2.89
SRCPARAM L0044430	0.0	3.66	1.40	2.89
SRCPARAM L0044431	0.0	3.66	1.40	2.89
SRCPARAM L0044432	0.0	3.66	1.40	2.89
SRCPARAM L0044433	0.0	3.66	1.40	2.89
SRCPARAM L0044434	0.0	3.66	1.40	2.89
SRCPARAM L0044435	0.0	3.66	1.40	2.89
SRCPARAM L0044436	0.0	3.66	1.40	2.89
SRCPARAM L0044437	0.0	3.66	1.40	2.89

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SRCPARAM L0044438	0.0	3.66	1.40	2.89
SRCPARAM L0044439	0.0	3.66	1.40	2.89
SRCPARAM L0044440	0.0	3.66	1.40	2.89
SRCPARAM L0044441	0.0	3.66	1.40	2.89
SRCPARAM L0044442	0.0	3.66	1.40	2.89
SRCPARAM L0044443	0.0	3.66	1.40	2.89
SRCPARAM L0044444	0.0	3.66	1.40	2.89
SRCPARAM L0044445	0.0	3.66	1.40	2.89
SRCPARAM L0044446	0.0	3.66	1.40	2.89
SRCPARAM L0044447	0.0	3.66	1.40	2.89
SRCPARAM L0044448	0.0	3.66	1.40	2.89
SRCPARAM L0044449	0.0	3.66	1.40	2.89
SRCPARAM L0044450	0.0	3.66	1.40	2.89
SRCPARAM L0044451	0.0	3.66	1.40	2.89
SRCPARAM L0044452	0.0	3.66	1.40	2.89
SRCPARAM L0044453	0.0	3.66	1.40	2.89
SRCPARAM L0044454	0.0	3.66	1.40	2.89
SRCPARAM L0044455	0.0	3.66	1.40	2.89
SRCPARAM L0044456	0.0	3.66	1.40	2.89
SRCPARAM L0044457	0.0	3.66	1.40	2.89
SRCPARAM L0044458	0.0	3.66	1.40	2.89
SRCPARAM L0044459	0.0	3.66	1.40	2.89
SRCPARAM L0044460	0.0	3.66	1.40	2.89
SRCPARAM L0044461	0.0	3.66	1.40	2.89
SRCPARAM L0044462	0.0	3.66	1.40	2.89
SRCPARAM L0044463	0.0	3.66	1.40	2.89
SRCPARAM L0044464	0.0	3.66	1.40	2.89
SRCPARAM L0044465	0.0	3.66	1.40	2.89
SRCPARAM L0044466	0.0	3.66	1.40	2.89
SRCPARAM L0044467	0.0	3.66	1.40	2.89
SRCPARAM L0044468	0.0	3.66	1.40	2.89
SRCPARAM L0044469	0.0	3.66	1.40	2.89
SRCPARAM L0044470	0.0	3.66	1.40	2.89
SRCPARAM L0044471	0.0	3.66	1.40	2.89
SRCPARAM L0044472	0.0	3.66	1.40	2.89
SRCPARAM L0044473	0.0	3.66	1.40	2.89
SRCPARAM L0044474	0.0	3.66	1.40	2.89
SRCPARAM L0044475	0.0	3.66	1.40	2.89
SRCPARAM L0044476	0.0	3.66	1.40	2.89
SRCPARAM L0044477	0.0	3.66	1.40	2.89
SRCPARAM L0044478	0.0	3.66	1.40	2.89
SRCPARAM L0044479	0.0	3.66	1.40	2.89
SRCPARAM L0044480	0.0	3.66	1.40	2.89
SRCPARAM L0044481	0.0	3.66	1.40	2.89
SRCPARAM L0044482	0.0	3.66	1.40	2.89
SRCPARAM L0044483	0.0	3.66	1.40	2.89
SRCPARAM L0044484	0.0	3.66	1.40	2.89
SRCPARAM L0044485	0.0	3.66	1.40	2.89

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SRCPARAM L0044486	0.0	3.66	1.40	2.89
SRCPARAM L0044487	0.0	3.66	1.40	2.89
SRCPARAM L0044488	0.0	3.66	1.40	2.89
SRCPARAM L0044489	0.0	3.66	1.40	2.89
SRCPARAM L0044490	0.0	3.66	1.40	2.89
SRCPARAM L0044491	0.0	3.66	1.40	2.89
SRCPARAM L0044492	0.0	3.66	1.40	2.89
SRCPARAM L0044493	0.0	3.66	1.40	2.89
SRCPARAM L0044494	0.0	3.66	1.40	2.89
SRCPARAM L0044495	0.0	3.66	1.40	2.89
SRCPARAM L0044496	0.0	3.66	1.40	2.89
SRCPARAM L0044497	0.0	3.66	1.40	2.89
SRCPARAM L0044498	0.0	3.66	1.40	2.89
SRCPARAM L0044499	0.0	3.66	1.40	2.89
SRCPARAM L0044500	0.0	3.66	1.40	2.89
SRCPARAM L0044501	0.0	3.66	1.40	2.89
SRCPARAM L0044502	0.0	3.66	1.40	2.89
SRCPARAM L0044503	0.0	3.66	1.40	2.89
SRCPARAM L0044504	0.0	3.66	1.40	2.89
SRCPARAM L0044505	0.0	3.66	1.40	2.89
SRCPARAM L0044506	0.0	3.66	1.40	2.89
SRCPARAM L0044507	0.0	3.66	1.40	2.89
SRCPARAM L0044508	0.0	3.66	1.40	2.89
SRCPARAM L0044509	0.0	3.66	1.40	2.89
SRCPARAM L0044510	0.0	3.66	1.40	2.89
SRCPARAM L0044511	0.0	3.66	1.40	2.89
SRCPARAM L0044512	0.0	3.66	1.40	2.89
SRCPARAM L0044513	0.0	3.66	1.40	2.89
SRCPARAM L0044514	0.0	3.66	1.40	2.89
SRCPARAM L0044515	0.0	3.66	1.40	2.89
SRCPARAM L0044516	0.0	3.66	1.40	2.89
SRCPARAM L0044517	0.0	3.66	1.40	2.89
SRCPARAM L0044518	0.0	3.66	1.40	2.89
SRCPARAM L0044519	0.0	3.66	1.40	2.89
SRCPARAM L0044520	0.0	3.66	1.40	2.89
SRCPARAM L0044521	0.0	3.66	1.40	2.89
SRCPARAM L0044522	0.0	3.66	1.40	2.89
SRCPARAM L0044523	0.0	3.66	1.40	2.89
SRCPARAM L0044524	0.0	3.66	1.40	2.89
SRCPARAM L0044525	0.0	3.66	1.40	2.89
SRCPARAM L0044526	0.0	3.66	1.40	2.89
SRCPARAM L0044527	0.0	3.66	1.40	2.89
SRCPARAM L0044528	0.0	3.66	1.40	2.89
SRCPARAM L0044529	0.0	3.66	1.40	2.89
SRCPARAM L0044530	0.0	3.66	1.40	2.89
SRCPARAM L0044531	0.0	3.66	1.40	2.89
SRCPARAM L0044532	0.0	3.66	1.40	2.89
SRCPARAM L0044533	0.0	3.66	1.40	2.89

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SRCPARAM L0044534	0.0	3.66	1.40	2.89
SRCPARAM L0044535	0.0	3.66	1.40	2.89
SRCPARAM L0044536	0.0	3.66	1.40	2.89
SRCPARAM L0044537	0.0	3.66	1.40	2.89
SRCPARAM L0044538	0.0	3.66	1.40	2.89
SRCPARAM L0044539	0.0	3.66	1.40	2.89
SRCPARAM L0044540	0.0	3.66	1.40	2.89
SRCPARAM L0044541	0.0	3.66	1.40	2.89
SRCPARAM L0044542	0.0	3.66	1.40	2.89
SRCPARAM L0044543	0.0	3.66	1.40	2.89
SRCPARAM L0044544	0.0	3.66	1.40	2.89
SRCPARAM L0044545	0.0	3.66	1.40	2.89
SRCPARAM L0044546	0.0	3.66	1.40	2.89
SRCPARAM L0044547	0.0	3.66	1.40	2.89
SRCPARAM L0044548	0.0	3.66	1.40	2.89
SRCPARAM L0044549	0.0	3.66	1.40	2.89
SRCPARAM L0044550	0.0	3.66	1.40	2.89
SRCPARAM L0044551	0.0	3.66	1.40	2.89
SRCPARAM L0044552	0.0	3.66	1.40	2.89
SRCPARAM L0044553	0.0	3.66	1.40	2.89
SRCPARAM L0044554	0.0	3.66	1.40	2.89
SRCPARAM L0044555	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE61

SRCPARAM L0044556	0.0	3.66	1.40	2.89
SRCPARAM L0044557	0.0	3.66	1.40	2.89
SRCPARAM L0044558	0.0	3.66	1.40	2.89
SRCPARAM L0044559	0.0	3.66	1.40	2.89
SRCPARAM L0044560	0.0	3.66	1.40	2.89
SRCPARAM L0044561	0.0	3.66	1.40	2.89
SRCPARAM L0044562	0.0	3.66	1.40	2.89
SRCPARAM L0044563	0.0	3.66	1.40	2.89
SRCPARAM L0044564	0.0	3.66	1.40	2.89
SRCPARAM L0044565	0.0	3.66	1.40	2.89
SRCPARAM L0044566	0.0	3.66	1.40	2.89
SRCPARAM L0044567	0.0	3.66	1.40	2.89
SRCPARAM L0044568	0.0	3.66	1.40	2.89
SRCPARAM L0044569	0.0	3.66	1.40	2.89
SRCPARAM L0044570	0.0	3.66	1.40	2.89
SRCPARAM L0044571	0.0	3.66	1.40	2.89
SRCPARAM L0044572	0.0	3.66	1.40	2.89
SRCPARAM L0044573	0.0	3.66	1.40	2.89
SRCPARAM L0044574	0.0	3.66	1.40	2.89
SRCPARAM L0044575	0.0	3.66	1.40	2.89
SRCPARAM L0044576	0.0	3.66	1.40	2.89
SRCPARAM L0044577	0.0	3.66	1.40	2.89
SRCPARAM L0044578	0.0	3.66	1.40	2.89
SRCPARAM L0044579	0.0	3.66	1.40	2.89

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SRCPARAM L0044580	0.0	3.66	1.40	2.89
SRCPARAM L0044581	0.0	3.66	1.40	2.89
SRCPARAM L0044582	0.0	3.66	1.40	2.89
SRCPARAM L0044583	0.0	3.66	1.40	2.89
SRCPARAM L0044584	0.0	3.66	1.40	2.89
SRCPARAM L0044585	0.0	3.66	1.40	2.89
SRCPARAM L0044586	0.0	3.66	1.40	2.89
SRCPARAM L0044587	0.0	3.66	1.40	2.89
SRCPARAM L0044588	0.0	3.66	1.40	2.89
SRCPARAM L0044589	0.0	3.66	1.40	2.89
SRCPARAM L0044590	0.0	3.66	1.40	2.89
SRCPARAM L0044591	0.0	3.66	1.40	2.89
SRCPARAM L0044592	0.0	3.66	1.40	2.89
SRCPARAM L0044593	0.0	3.66	1.40	2.89
SRCPARAM L0044594	0.0	3.66	1.40	2.89
SRCPARAM L0044595	0.0	3.66	1.40	2.89
SRCPARAM L0044596	0.0	3.66	1.40	2.89
SRCPARAM L0044597	0.0	3.66	1.40	2.89
SRCPARAM L0044598	0.0	3.66	1.40	2.89
SRCPARAM L0044599	0.0	3.66	1.40	2.89
SRCPARAM L0044600	0.0	3.66	1.40	2.89
SRCPARAM L0044601	0.0	3.66	1.40	2.89
SRCPARAM L0044602	0.0	3.66	1.40	2.89
SRCPARAM L0044603	0.0	3.66	1.40	2.89
SRCPARAM L0044604	0.0	3.66	1.40	2.89
SRCPARAM L0044605	0.0	3.66	1.40	2.89
SRCPARAM L0044606	0.0	3.66	1.40	2.89
SRCPARAM L0044607	0.0	3.66	1.40	2.89
SRCPARAM L0044608	0.0	3.66	1.40	2.89
SRCPARAM L0044609	0.0	3.66	1.40	2.89
SRCPARAM L0044610	0.0	3.66	1.40	2.89
SRCPARAM L0044611	0.0	3.66	1.40	2.89
SRCPARAM L0044612	0.0	3.66	1.40	2.89
SRCPARAM L0044613	0.0	3.66	1.40	2.89
SRCPARAM L0044614	0.0	3.66	1.40	2.89
SRCPARAM L0044615	0.0	3.66	1.40	2.89
SRCPARAM L0044616	0.0	3.66	1.40	2.89
SRCPARAM L0044617	0.0	3.66	1.40	2.89
SRCPARAM L0044618	0.0	3.66	1.40	2.89
SRCPARAM L0044619	0.0	3.66	1.40	2.89
SRCPARAM L0044620	0.0	3.66	1.40	2.89
SRCPARAM L0044621	0.0	3.66	1.40	2.89
SRCPARAM L0044622	0.0	3.66	1.40	2.89
SRCPARAM L0044623	0.0	3.66	1.40	2.89
SRCPARAM L0044624	0.0	3.66	1.40	2.89
SRCPARAM L0044625	0.0	3.66	1.40	2.89
SRCPARAM L0044626	0.0	3.66	1.40	2.89
SRCPARAM L0044627	0.0	3.66	1.40	2.89

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SRCPARAM L0044628	0.0	3.66	1.40	2.89
SRCPARAM L0044629	0.0	3.66	1.40	2.89
SRCPARAM L0044630	0.0	3.66	1.40	2.89
SRCPARAM L0044631	0.0	3.66	1.40	2.89
SRCPARAM L0044632	0.0	3.66	1.40	2.89
SRCPARAM L0044633	0.0	3.66	1.40	2.89
SRCPARAM L0044634	0.0	3.66	1.40	2.89
SRCPARAM L0044635	0.0	3.66	1.40	2.89
SRCPARAM L0044636	0.0	3.66	1.40	2.89
SRCPARAM L0044637	0.0	3.66	1.40	2.89
SRCPARAM L0044638	0.0	3.66	1.40	2.89
SRCPARAM L0044639	0.0	3.66	1.40	2.89
SRCPARAM L0044640	0.0	3.66	1.40	2.89
SRCPARAM L0044641	0.0	3.66	1.40	2.89
SRCPARAM L0044642	0.0	3.66	1.40	2.89
SRCPARAM L0044643	0.0	3.66	1.40	2.89
SRCPARAM L0044644	0.0	3.66	1.40	2.89
SRCPARAM L0044645	0.0	3.66	1.40	2.89
SRCPARAM L0044646	0.0	3.66	1.40	2.89
SRCPARAM L0044647	0.0	3.66	1.40	2.89
SRCPARAM L0044648	0.0	3.66	1.40	2.89
SRCPARAM L0044649	0.0	3.66	1.40	2.89
SRCPARAM L0044650	0.0	3.66	1.40	2.89
SRCPARAM L0044651	0.0	3.66	1.40	2.89
SRCPARAM L0044652	0.0	3.66	1.40	2.89
SRCPARAM L0044653	0.0	3.66	1.40	2.89
SRCPARAM L0044654	0.0	3.66	1.40	2.89
SRCPARAM L0044655	0.0	3.66	1.40	2.89
SRCPARAM L0044656	0.0	3.66	1.40	2.89
SRCPARAM L0044657	0.0	3.66	1.40	2.89
SRCPARAM L0044658	0.0	3.66	1.40	2.89
SRCPARAM L0044659	0.0	3.66	1.40	2.89
SRCPARAM L0044660	0.0	3.66	1.40	2.89
SRCPARAM L0044661	0.0	3.66	1.40	2.89
SRCPARAM L0044662	0.0	3.66	1.40	2.89
SRCPARAM L0044663	0.0	3.66	1.40	2.89
SRCPARAM L0044664	0.0	3.66	1.40	2.89
SRCPARAM L0044665	0.0	3.66	1.40	2.89
SRCPARAM L0044666	0.0	3.66	1.40	2.89
SRCPARAM L0044667	0.0	3.66	1.40	2.89
SRCPARAM L0044668	0.0	3.66	1.40	2.89
SRCPARAM L0044669	0.0	3.66	1.40	2.89
SRCPARAM L0044670	0.0	3.66	1.40	2.89
SRCPARAM L0044671	0.0	3.66	1.40	2.89
SRCPARAM L0044672	0.0	3.66	1.40	2.89
SRCPARAM L0044673	0.0	3.66	1.40	2.89
SRCPARAM L0044674	0.0	3.66	1.40	2.89
SRCPARAM L0044675	0.0	3.66	1.40	2.89

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SRCPARAM L0044676	0.0	3.66	1.40	2.89
SRCPARAM L0044677	0.0	3.66	1.40	2.89
SRCPARAM L0044678	0.0	3.66	1.40	2.89
SRCPARAM L0044679	0.0	3.66	1.40	2.89
SRCPARAM L0044680	0.0	3.66	1.40	2.89
SRCPARAM L0044681	0.0	3.66	1.40	2.89
SRCPARAM L0044682	0.0	3.66	1.40	2.89
SRCPARAM L0044683	0.0	3.66	1.40	2.89
SRCPARAM L0044684	0.0	3.66	1.40	2.89
SRCPARAM L0044685	0.0	3.66	1.40	2.89
SRCPARAM L0044686	0.0	3.66	1.40	2.89
SRCPARAM L0044687	0.0	3.66	1.40	2.89
SRCPARAM L0044688	0.0	3.66	1.40	2.89
SRCPARAM L0044689	0.0	3.66	1.40	2.89
SRCPARAM L0044690	0.0	3.66	1.40	2.89
SRCPARAM L0044691	0.0	3.66	1.40	2.89
SRCPARAM L0044692	0.0	3.66	1.40	2.89
SRCPARAM L0044693	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE62

SRCPARAM L0035433	0.0	3.66	2.33	2.89
SRCPARAM L0035434	0.0	3.66	2.33	2.89
SRCPARAM L0035435	0.0	3.66	2.33	2.89
SRCPARAM L0035436	0.0	3.66	2.33	2.89
SRCPARAM L0035437	0.0	3.66	2.33	2.89
SRCPARAM L0035438	0.0	3.66	2.33	2.89
SRCPARAM L0035439	0.0	3.66	2.33	2.89
SRCPARAM L0035440	0.0	3.66	2.33	2.89
SRCPARAM L0035441	0.0	3.66	2.33	2.89
SRCPARAM L0035442	0.0	3.66	2.33	2.89
SRCPARAM L0035443	0.0	3.66	2.33	2.89
SRCPARAM L0035444	0.0	3.66	2.33	2.89
SRCPARAM L0035445	0.0	3.66	2.33	2.89
SRCPARAM L0035446	0.0	3.66	2.33	2.89
SRCPARAM L0035447	0.0	3.66	2.33	2.89
SRCPARAM L0035448	0.0	3.66	2.33	2.89
SRCPARAM L0035449	0.0	3.66	2.33	2.89
SRCPARAM L0035450	0.0	3.66	2.33	2.89
SRCPARAM L0035451	0.0	3.66	2.33	2.89
SRCPARAM L0035452	0.0	3.66	2.33	2.89
SRCPARAM L0035453	0.0	3.66	2.33	2.89
SRCPARAM L0035454	0.0	3.66	2.33	2.89
SRCPARAM L0035455	0.0	3.66	2.33	2.89
SRCPARAM L0035456	0.0	3.66	2.33	2.89
SRCPARAM L0035457	0.0	3.66	2.33	2.89
SRCPARAM L0035458	0.0	3.66	2.33	2.89
SRCPARAM L0035459	0.0	3.66	2.33	2.89
SRCPARAM L0035460	0.0	3.66	2.33	2.89



SOL\_operations\_rev2.ADO

SRCPARAM L0035461	0.0	3.66	2.33	2.89
SRCPARAM L0035462	0.0	3.66	2.33	2.89
SRCPARAM L0035463	0.0	3.66	2.33	2.89
SRCPARAM L0035464	0.0	3.66	2.33	2.89
SRCPARAM L0035465	0.0	3.66	2.33	2.89
SRCPARAM L0035466	0.0	3.66	2.33	2.89
SRCPARAM L0035467	0.0	3.66	2.33	2.89
SRCPARAM L0035468	0.0	3.66	2.33	2.89
SRCPARAM L0035469	0.0	3.66	2.33	2.89
SRCPARAM L0035470	0.0	3.66	2.33	2.89
SRCPARAM L0035471	0.0	3.66	2.33	2.89
SRCPARAM L0035472	0.0	3.66	2.33	2.89
SRCPARAM L0035473	0.0	3.66	2.33	2.89
SRCPARAM L0035474	0.0	3.66	2.33	2.89
SRCPARAM L0035475	0.0	3.66	2.33	2.89
SRCPARAM L0035476	0.0	3.66	2.33	2.89
SRCPARAM L0035477	0.0	3.66	2.33	2.89
SRCPARAM L0035478	0.0	3.66	2.33	2.89
SRCPARAM L0035479	0.0	3.66	2.33	2.89
SRCPARAM L0035480	0.0	3.66	2.33	2.89
SRCPARAM L0035481	0.0	3.66	2.33	2.89
SRCPARAM L0035482	0.0	3.66	2.33	2.89
SRCPARAM L0035483	0.0	3.66	2.33	2.89
SRCPARAM L0035484	0.0	3.66	2.33	2.89
SRCPARAM L0035485	0.0	3.66	2.33	2.89
SRCPARAM L0035486	0.0	3.66	2.33	2.89
SRCPARAM L0035487	0.0	3.66	2.33	2.89
SRCPARAM L0035488	0.0	3.66	2.33	2.89
SRCPARAM L0035489	0.0	3.66	2.33	2.89
SRCPARAM L0035490	0.0	3.66	2.33	2.89
SRCPARAM L0035491	0.0	3.66	2.33	2.89
SRCPARAM L0035492	0.0	3.66	2.33	2.89
SRCPARAM L0035493	0.0	3.66	2.33	2.89
SRCPARAM L0035494	0.0	3.66	2.33	2.89
SRCPARAM L0035495	0.0	3.66	2.33	2.89
SRCPARAM L0035496	0.0	3.66	2.33	2.89
SRCPARAM L0035497	0.0	3.66	2.33	2.89
SRCPARAM L0035498	0.0	3.66	2.33	2.89
SRCPARAM L0035499	0.0	3.66	2.33	2.89
SRCPARAM L0035500	0.0	3.66	2.33	2.89
SRCPARAM L0035501	0.0	3.66	2.33	2.89
SRCPARAM L0035502	0.0	3.66	2.33	2.89
SRCPARAM L0035503	0.0	3.66	2.33	2.89
SRCPARAM L0035504	0.0	3.66	2.33	2.89
SRCPARAM L0035505	0.0	3.66	2.33	2.89
SRCPARAM L0035506	0.0	3.66	2.33	2.89
SRCPARAM L0035507	0.0	3.66	2.33	2.89
SRCPARAM L0035508	0.0	3.66	2.33	2.89

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SRCPARAM L0035509	0.0	3.66	2.33	2.89
SRCPARAM L0035510	0.0	3.66	2.33	2.89
SRCPARAM L0035511	0.0	3.66	2.33	2.89
SRCPARAM L0035512	0.0	3.66	2.33	2.89
SRCPARAM L0035513	0.0	3.66	2.33	2.89
SRCPARAM L0035514	0.0	3.66	2.33	2.89
SRCPARAM L0035515	0.0	3.66	2.33	2.89
SRCPARAM L0035516	0.0	3.66	2.33	2.89
SRCPARAM L0035517	0.0	3.66	2.33	2.89
SRCPARAM L0035518	0.0	3.66	2.33	2.89
SRCPARAM L0035519	0.0	3.66	2.33	2.89
SRCPARAM L0035520	0.0	3.66	2.33	2.89
SRCPARAM L0035521	0.0	3.66	2.33	2.89
SRCPARAM L0035522	0.0	3.66	2.33	2.89
SRCPARAM L0035523	0.0	3.66	2.33	2.89
SRCPARAM L0035524	0.0	3.66	2.33	2.89
SRCPARAM L0035525	0.0	3.66	2.33	2.89
SRCPARAM L0035526	0.0	3.66	2.33	2.89
SRCPARAM L0035527	0.0	3.66	2.33	2.89
SRCPARAM L0035528	0.0	3.66	2.33	2.89
SRCPARAM L0035529	0.0	3.66	2.33	2.89
SRCPARAM L0035530	0.0	3.66	2.33	2.89
SRCPARAM L0035531	0.0	3.66	2.33	2.89
SRCPARAM L0035532	0.0	3.66	2.33	2.89
SRCPARAM L0035533	0.0	3.66	2.33	2.89
SRCPARAM L0035534	0.0	3.66	2.33	2.89
SRCPARAM L0035535	0.0	3.66	2.33	2.89
SRCPARAM L0035536	0.0	3.66	2.33	2.89
SRCPARAM L0035537	0.0	3.66	2.33	2.89
SRCPARAM L0035538	0.0	3.66	2.33	2.89
SRCPARAM L0035539	0.0	3.66	2.33	2.89
SRCPARAM L0035540	0.0	3.66	2.33	2.89
SRCPARAM L0035541	0.0	3.66	2.33	2.89
SRCPARAM L0035542	0.0	3.66	2.33	2.89
SRCPARAM L0035543	0.0	3.66	2.33	2.89
SRCPARAM L0035544	0.0	3.66	2.33	2.89
SRCPARAM L0035545	0.0	3.66	2.33	2.89
SRCPARAM L0035546	0.0	3.66	2.33	2.89
SRCPARAM L0035547	0.0	3.66	2.33	2.89
SRCPARAM L0035548	0.0	3.66	2.33	2.89
SRCPARAM L0035549	0.0	3.66	2.33	2.89
SRCPARAM L0035550	0.0	3.66	2.33	2.89
SRCPARAM L0035551	0.0	3.66	2.33	2.89
SRCPARAM L0035552	0.0	3.66	2.33	2.89
SRCPARAM L0035553	0.0	3.66	2.33	2.89
SRCPARAM L0035554	0.0	3.66	2.33	2.89
SRCPARAM L0035555	0.0	3.66	2.33	2.89
SRCPARAM L0035556	0.0	3.66	2.33	2.89

SOL\_operations\_rev2.ADO

SRCPARAM L0035557	0.0	3.66	2.33	2.89
SRCPARAM L0035558	0.0	3.66	2.33	2.89
SRCPARAM L0035559	0.0	3.66	2.33	2.89
SRCPARAM L0035560	0.0	3.66	2.33	2.89
SRCPARAM L0035561	0.0	3.66	2.33	2.89
SRCPARAM L0035562	0.0	3.66	2.33	2.89
SRCPARAM L0035563	0.0	3.66	2.33	2.89
SRCPARAM L0035564	0.0	3.66	2.33	2.89
SRCPARAM L0035565	0.0	3.66	2.33	2.89
SRCPARAM L0035566	0.0	3.66	2.33	2.89
SRCPARAM L0035567	0.0	3.66	2.33	2.89
SRCPARAM L0035568	0.0	3.66	2.33	2.89
SRCPARAM L0035569	0.0	3.66	2.33	2.89
SRCPARAM L0035570	0.0	3.66	2.33	2.89
SRCPARAM L0035571	0.0	3.66	2.33	2.89
SRCPARAM L0035572	0.0	3.66	2.33	2.89
SRCPARAM L0035573	0.0	3.66	2.33	2.89
SRCPARAM L0035574	0.0	3.66	2.33	2.89
SRCPARAM L0035575	0.0	3.66	2.33	2.89
SRCPARAM L0035576	0.0	3.66	2.33	2.89
SRCPARAM L0035577	0.0	3.66	2.33	2.89
SRCPARAM L0035578	0.0	3.66	2.33	2.89
SRCPARAM L0035579	0.0	3.66	2.33	2.89
SRCPARAM L0035580	0.0	3.66	2.33	2.89
SRCPARAM L0035581	0.0	3.66	2.33	2.89
SRCPARAM L0035582	0.0	3.66	2.33	2.89
SRCPARAM L0035583	0.0	3.66	2.33	2.89
SRCPARAM L0035584	0.0	3.66	2.33	2.89
SRCPARAM L0035585	0.0	3.66	2.33	2.89
SRCPARAM L0035586	0.0	3.66	2.33	2.89
SRCPARAM L0035587	0.0	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE64

SRCPARAM L0044694	0.0	3.66	1.40	2.89
SRCPARAM L0044695	0.0	3.66	1.40	2.89
SRCPARAM L0044696	0.0	3.66	1.40	2.89
SRCPARAM L0044697	0.0	3.66	1.40	2.89
SRCPARAM L0044698	0.0	3.66	1.40	2.89
SRCPARAM L0044699	0.0	3.66	1.40	2.89
SRCPARAM L0044700	0.0	3.66	1.40	2.89
SRCPARAM L0044701	0.0	3.66	1.40	2.89
SRCPARAM L0044702	0.0	3.66	1.40	2.89
SRCPARAM L0044703	0.0	3.66	1.40	2.89
SRCPARAM L0044704	0.0	3.66	1.40	2.89
SRCPARAM L0044705	0.0	3.66	1.40	2.89
SRCPARAM L0044706	0.0	3.66	1.40	2.89
SRCPARAM L0044707	0.0	3.66	1.40	2.89
SRCPARAM L0044708	0.0	3.66	1.40	2.89

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SRCPARAM L0044709	0.0	3.66	1.40	2.89
SRCPARAM L0044710	0.0	3.66	1.40	2.89
SRCPARAM L0044711	0.0	3.66	1.40	2.89
SRCPARAM L0044712	0.0	3.66	1.40	2.89
SRCPARAM L0044713	0.0	3.66	1.40	2.89
SRCPARAM L0044714	0.0	3.66	1.40	2.89
SRCPARAM L0044715	0.0	3.66	1.40	2.89
SRCPARAM L0044716	0.0	3.66	1.40	2.89
SRCPARAM L0044717	0.0	3.66	1.40	2.89
SRCPARAM L0044718	0.0	3.66	1.40	2.89
SRCPARAM L0044719	0.0	3.66	1.40	2.89
SRCPARAM L0044720	0.0	3.66	1.40	2.89
SRCPARAM L0044721	0.0	3.66	1.40	2.89
SRCPARAM L0044722	0.0	3.66	1.40	2.89
SRCPARAM L0044723	0.0	3.66	1.40	2.89
SRCPARAM L0044724	0.0	3.66	1.40	2.89
SRCPARAM L0044725	0.0	3.66	1.40	2.89
SRCPARAM L0044726	0.0	3.66	1.40	2.89
SRCPARAM L0044727	0.0	3.66	1.40	2.89
SRCPARAM L0044728	0.0	3.66	1.40	2.89
SRCPARAM L0044729	0.0	3.66	1.40	2.89
SRCPARAM L0044730	0.0	3.66	1.40	2.89
SRCPARAM L0044731	0.0	3.66	1.40	2.89
SRCPARAM L0044732	0.0	3.66	1.40	2.89
SRCPARAM L0044733	0.0	3.66	1.40	2.89
SRCPARAM L0044734	0.0	3.66	1.40	2.89
SRCPARAM L0044735	0.0	3.66	1.40	2.89
SRCPARAM L0044736	0.0	3.66	1.40	2.89
SRCPARAM L0044737	0.0	3.66	1.40	2.89
SRCPARAM L0044738	0.0	3.66	1.40	2.89
SRCPARAM L0044739	0.0	3.66	1.40	2.89
SRCPARAM L0044740	0.0	3.66	1.40	2.89
SRCPARAM L0044741	0.0	3.66	1.40	2.89
SRCPARAM L0044742	0.0	3.66	1.40	2.89
SRCPARAM L0044743	0.0	3.66	1.40	2.89
SRCPARAM L0044744	0.0	3.66	1.40	2.89
SRCPARAM L0044745	0.0	3.66	1.40	2.89
SRCPARAM L0044746	0.0	3.66	1.40	2.89
SRCPARAM L0044747	0.0	3.66	1.40	2.89
SRCPARAM L0044748	0.0	3.66	1.40	2.89
SRCPARAM L0044749	0.0	3.66	1.40	2.89
SRCPARAM L0044750	0.0	3.66	1.40	2.89
SRCPARAM L0044751	0.0	3.66	1.40	2.89
SRCPARAM L0044752	0.0	3.66	1.40	2.89
SRCPARAM L0044753	0.0	3.66	1.40	2.89
SRCPARAM L0044754	0.0	3.66	1.40	2.89
SRCPARAM L0044755	0.0	3.66	1.40	2.89
SRCPARAM L0044756	0.0	3.66	1.40	2.89

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SRCPARAM L0044757	0.0	3.66	1.40	2.89
SRCPARAM L0044758	0.0	3.66	1.40	2.89
SRCPARAM L0044759	0.0	3.66	1.40	2.89
SRCPARAM L0044760	0.0	3.66	1.40	2.89
SRCPARAM L0044761	0.0	3.66	1.40	2.89
SRCPARAM L0044762	0.0	3.66	1.40	2.89
SRCPARAM L0044763	0.0	3.66	1.40	2.89
SRCPARAM L0044764	0.0	3.66	1.40	2.89
SRCPARAM L0044765	0.0	3.66	1.40	2.89
SRCPARAM L0044766	0.0	3.66	1.40	2.89
SRCPARAM L0044767	0.0	3.66	1.40	2.89
SRCPARAM L0044768	0.0	3.66	1.40	2.89

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\*\* LINE VOLUME Source ID = SLINE65

SRCPARAM L0044769	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044770	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044771	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044772	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044773	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044774	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044775	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044776	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044777	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044778	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044779	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044780	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044781	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044782	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044783	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044784	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044785	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044786	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044787	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044788	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044789	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044790	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044791	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044792	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044793	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044794	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044795	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044796	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044797	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044798	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044799	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044800	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044801	0.00000003441	3.66	2.33	2.89
SRCPARAM L0044802	0.00000003441	3.66	2.33	2.89





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SRCPARAM	L0044899	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044900	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044901	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044902	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044903	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044904	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044905	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044906	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044907	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044908	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044909	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044910	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044911	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044912	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044913	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044914	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044915	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044916	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044917	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044918	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044919	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044920	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044921	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044922	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044923	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044924	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044925	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044926	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044927	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044928	0.00000003441	3.66	2.33	2.89
SRCPARAM	L0044929	0.00000003441	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE66

SRCPARAM	L0044930	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044931	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044932	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044933	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044934	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044935	0.0000001324	3.66	2.33	2.89
SRCPARAM	L0044936	0.0000001324	3.66	2.33	2.89

\*\*

\*\* LINE VOLUME Source ID = SLINE67

SRCPARAM	L0044937	0.00000005455	3.66	2.33	2.89
SRCPARAM	L0044938	0.00000005455	3.66	2.33	2.89
SRCPARAM	L0044939	0.00000005455	3.66	2.33	2.89
SRCPARAM	L0044940	0.00000005455	3.66	2.33	2.89
SRCPARAM	L0044941	0.00000005455	3.66	2.33	2.89
SRCPARAM	L0044942	0.00000005455	3.66	2.33	2.89







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SRCPARAM L0045039	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045040	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045041	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045042	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045043	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045044	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045045	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045046	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045047	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045048	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045049	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045050	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045051	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045052	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045053	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045054	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045055	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045056	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045057	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045058	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045059	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045060	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045061	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045062	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045063	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045064	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045065	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045066	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045067	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045068	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045069	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045070	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045071	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045072	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045073	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045074	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045075	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045076	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045077	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045078	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045079	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045080	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045081	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045082	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045083	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045084	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045085	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045086	0.00000005455	3.66	2.33	2.89

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SRCPARAM L0045087	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045088	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045089	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045090	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045091	0.00000005455	3.66	2.33	2.89
SRCPARAM L0045092	0.00000005455	3.66	2.33	2.89

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\*\* LINE VOLUME Source ID = SLINE68

SRCPARAM L0045093	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045094	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045095	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045096	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045097	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045098	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045099	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045100	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045101	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045102	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045103	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045104	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045105	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045106	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045107	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045108	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045109	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045110	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045111	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045112	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045113	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045114	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045115	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045116	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045117	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045118	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045119	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045120	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045121	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045122	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045123	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045124	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045125	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045126	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045127	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045128	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045129	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045130	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045131	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045132	0.00000005469	3.66	2.33	2.89





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SRCPARAM L0045229	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045230	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045231	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045232	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045233	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045234	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045235	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045236	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045237	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045238	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045239	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045240	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045241	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045242	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045243	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045244	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045245	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045246	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045247	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045248	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045249	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045250	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045251	0.00000005469	3.66	2.33	2.89
SRCPARAM L0045252	0.00000005469	3.66	2.33	2.89

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URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING

INCLUDED SOL\_operations\_rev2.rou

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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ME STARTING

SURFFILE KCNO\_V9\_ADJU\KCNO\_v9.SFC

PROFFILE KCNO\_V9\_ADJU\KCNO\_v9.PFL

SURFDATA 3179 2012

UAIRDATA 3190 2012

SOL\_operations\_rev2.ADO

PROFBASE 198.0 METERS  
ME FINISHED

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\*\* AERMOD Output Pathway

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OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST SOL\_OPERATIONS\_REV2.AD\01H1GALL.PLT 31  
PLOTFILE 24 ALL 1ST SOL\_OPERATIONS\_REV2.AD\24H1GALL.PLT 32  
PLOTFILE PERIOD ALL SOL\_OPERATIONS\_REV2.AD\PE00GALL.PLT 33  
SUMMFILE SOL\_operations\_rev2.sum

OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of                    0 Fatal Error Message(s)  
A Total of                    1316 Warning Message(s)  
A Total of                    0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320    8559            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8560            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8561            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8562            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8563            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8564            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS  
SO W320    8565            VPARAM: Input Parameter May Be Out-of-Range for Parameter  
          QS



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SO W320	8566	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8567	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8568	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8569	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8570	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8571	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8572	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8573	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8574	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8575	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8576	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8577	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8578	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8581	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8582	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8583	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8584	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8585	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8586	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8587	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8588	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8589	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8590	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8591	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		

SOL\_operations\_rev2.ADO

SO W320	8592	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8593	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8594	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8595	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8596	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8597	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8598	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8599	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8600	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8603	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8604	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8605	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8606	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8607	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8608	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8609	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8610	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8611	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8612	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8613	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8614	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8615	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8616	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8617	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		

SOL\_operations\_rev2.ADO

SO W320	8618	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8619	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8620	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8621	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8622	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8623	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8624	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8627	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8628	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8629	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8630	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8631	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8632	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8633	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8634	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8635	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8636	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8637	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8638	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8639	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8640	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8641	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8642	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8643	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SOL\_operations\_rev2.ADO

SO W320	8644	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8645	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8646	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8647	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8648	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8651	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8652	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8653	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8654	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8655	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8656	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8657	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8658	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8659	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8660	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8661	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8662	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8663	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8664	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8665	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8666	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8667	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8668	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8669	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8670	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	8671	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8674	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8675	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8676	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8999	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	9549	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		



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SO W320	9550	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9551	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9552	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9553	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9554	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9555	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9556	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9557	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9558	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9559	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9560	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9561	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9562	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9563	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9564	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9565	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9566	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9567	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9568	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9569	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9570	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9571	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9572	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		
SO W320	9573	VPARM: Input Parameter May Be Out-of-Range for Parameter
QS		

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SO W320 9574 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9575 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9576 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9577 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9578 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9579 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9580 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS  
 SO W320 9581 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
 QS

More Than 999 Warning Messages Found. See ERRORFIL Output for the Remainder.

\*\*\*\*\*  
 \*\*\* SETUP Finishes Successfully \*\*\*  
 \*\*\*\*\*

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 \*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.  
 \*\*NO PARTICLE DEPOSITION Data Provided.  
 \*\*Model Uses NO DRY DEPLETION. DRYDPLT = F  
 \*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 4624 Source(s),  
 for Total of 1 Urban Area(s):  
 Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

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1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 24-HR  
and Calculates PERIOD Averages

\*\*This Run Includes: 4624 Source(s); 1 Source Group(s); and 458  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4624 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE  
Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours

and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 5.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: SOL\_operations\_rev2.err

\*\*File for Summary of Results: SOL\_operations\_rev2.sum

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0040784	0	0.18050E-06	439897.9	3762682.1	217.5	3.66	5.58
2.89 YES							
L0040785	0	0.18050E-06	439897.8	3762670.1	217.3	3.66	5.58
2.89 YES							
L0040786	0	0.18050E-06	439897.8	3762658.1	217.2	3.66	5.58
2.89 YES							
L0040787	0	0.18050E-06	439897.7	3762646.1	217.0	3.66	5.58
2.89 YES							

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L0040788	0	0.18050E-06	439897.7	3762634.1	216.9	3.66	5.58
2.89	YES						
L0040789	0	0.18050E-06	439897.7	3762622.1	216.7	3.66	5.58
2.89	YES						
L0040790	0	0.18050E-06	439897.9	3762610.1	216.5	3.66	5.58
2.89	YES						
L0040791	0	0.18050E-06	439898.0	3762598.1	216.4	3.66	5.58
2.89	YES						
L0040792	0	0.18050E-06	439898.1	3762586.1	216.2	3.66	5.58
2.89	YES						
L0040793	0	0.18050E-06	439898.2	3762574.1	216.1	3.66	5.58
2.89	YES						
L0040794	0	0.18050E-06	439898.3	3762562.1	216.0	3.66	5.58
2.89	YES						
L0040795	0	0.18050E-06	439898.4	3762550.1	215.8	3.66	5.58
2.89	YES						
L0040796	0	0.18050E-06	439898.5	3762538.1	215.7	3.66	5.58
2.89	YES						
L0040797	0	0.18050E-06	439898.6	3762526.1	215.5	3.66	5.58
2.89	YES						
L0040798	0	0.18050E-06	439898.8	3762514.1	215.4	3.66	5.58
2.89	YES						
L0040799	0	0.18050E-06	439898.9	3762502.1	215.3	3.66	5.58
2.89	YES						
L0040800	0	0.18050E-06	439899.0	3762490.1	215.2	3.66	5.58
2.89	YES						
L0040801	0	0.18050E-06	439899.1	3762478.1	215.0	3.66	5.58
2.89	YES						
L0040802	0	0.18050E-06	439899.2	3762466.1	214.9	3.66	5.58
2.89	YES						
L0040803	0	0.18050E-06	439899.3	3762454.1	214.8	3.66	5.58
2.89	YES						
L0040804	0	0.18050E-06	439899.4	3762442.1	214.6	3.66	5.58
2.89	YES						
L0040805	0	0.18050E-06	439899.5	3762430.1	214.4	3.66	5.58
2.89	YES						
L0040806	0	0.18050E-06	439899.7	3762418.1	214.3	3.66	5.58
2.89	YES						
L0040807	0	0.18050E-06	439899.8	3762406.1	214.1	3.66	5.58
2.89	YES						
L0040808	0	0.18050E-06	439899.9	3762394.1	214.0	3.66	5.58
2.89	YES						
L0040809	0	0.18050E-06	439900.0	3762382.1	213.8	3.66	5.58
2.89	YES						
L0040810	0	0.18050E-06	439900.1	3762370.1	213.7	3.66	5.58
2.89	YES						
L0040811	0	0.18050E-06	439900.0	3762358.1	213.5	3.66	5.58
2.89	YES						

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L0040812	0	0.18050E-06	439899.9	3762346.1	213.3	3.66	5.58
2.89	YES						
L0040813	0	0.18050E-06	439899.9	3762334.1	213.2	3.66	5.58
2.89	YES						
L0040814	0	0.18050E-06	439899.8	3762322.1	213.0	3.66	5.58
2.89	YES						
L0040815	0	0.18050E-06	439899.7	3762310.1	212.8	3.66	5.58
2.89	YES						
L0040816	0	0.18050E-06	439899.6	3762298.1	212.6	3.66	5.58
2.89	YES						
L0040817	0	0.18050E-06	439899.5	3762286.1	212.4	3.66	5.58
2.89	YES						
L0040818	0	0.18050E-06	439899.4	3762274.1	212.2	3.66	5.58
2.89	YES						
L0040819	0	0.18050E-06	439899.4	3762262.1	212.0	3.66	5.58
2.89	YES						
L0040820	0	0.18050E-06	439899.3	3762250.1	211.8	3.66	5.58
2.89	YES						
L0040821	0	0.18050E-06	439899.2	3762238.1	211.6	3.66	5.58
2.89	YES						
L0040822	0	0.18050E-06	439899.1	3762226.1	211.5	3.66	5.58
2.89	YES						
L0040823	0	0.18050E-06	439899.0	3762214.1	211.3	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0040824	0	0.18050E-06	439898.9	3762202.1	211.1	3.66	5.58
2.89	YES						
L0040825	0	0.18050E-06	439898.9	3762190.1	211.0	3.66	5.58
2.89	YES						

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L0040826	0	0.18050E-06	439898.8	3762178.1	210.9	3.66	5.58
2.89	YES						
L0040827	0	0.18050E-06	439898.7	3762166.1	210.8	3.66	5.58
2.89	YES						
L0040828	0	0.18050E-06	439898.6	3762154.1	210.7	3.66	5.58
2.89	YES						
L0040829	0	0.18050E-06	439898.5	3762142.1	210.6	3.66	5.58
2.89	YES						
L0040830	0	0.18050E-06	439898.4	3762130.1	210.5	3.66	5.58
2.89	YES						
L0040831	0	0.18050E-06	439898.4	3762118.1	210.4	3.66	5.58
2.89	YES						
L0040832	0	0.18050E-06	439898.3	3762106.1	210.3	3.66	5.58
2.89	YES						
L0040833	0	0.18050E-06	439898.2	3762094.1	210.2	3.66	5.58
2.89	YES						
L0040834	0	0.18050E-06	439898.1	3762082.1	210.1	3.66	5.58
2.89	YES						
L0040835	0	0.18050E-06	439898.0	3762070.1	210.0	3.66	5.58
2.89	YES						
L0040836	0	0.18050E-06	439898.0	3762058.1	210.0	3.66	5.58
2.89	YES						
L0040837	0	0.18050E-06	439898.0	3762046.1	209.9	3.66	5.58
2.89	YES						
L0040838	0	0.18050E-06	439897.9	3762034.1	209.8	3.66	5.58
2.89	YES						
L0040839	0	0.18050E-06	439897.9	3762022.1	209.7	3.66	5.58
2.89	YES						
L0040840	0	0.18050E-06	439897.9	3762010.1	209.6	3.66	5.58
2.89	YES						
L0040841	0	0.18050E-06	439897.8	3761998.1	209.5	3.66	5.58
2.89	YES						
L0040842	0	0.18050E-06	439897.8	3761986.1	209.4	3.66	5.58
2.89	YES						
L0040843	0	0.18050E-06	439897.8	3761974.1	209.3	3.66	5.58
2.89	YES						
L0040844	0	0.18050E-06	439897.7	3761962.1	209.2	3.66	5.58
2.89	YES						
L0040845	0	0.18050E-06	439897.7	3761950.1	209.1	3.66	5.58
2.89	YES						
L0040846	0	0.18050E-06	439897.7	3761938.1	209.0	3.66	5.58
2.89	YES						
L0040847	0	0.18050E-06	439897.6	3761926.1	208.9	3.66	5.58
2.89	YES						
L0040848	0	0.18050E-06	439897.6	3761914.1	208.8	3.66	5.58
2.89	YES						
L0040849	0	0.18050E-06	439897.6	3761902.1	208.7	3.66	5.58
2.89	YES						

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L0040850	0	0.18050E-06	439897.5	3761890.1	208.6	3.66	5.58
2.89	YES						
L0040851	0	0.18050E-06	439897.5	3761878.1	208.5	3.66	5.58
2.89	YES						
L0040852	0	0.18050E-06	439897.5	3761866.1	208.4	3.66	5.58
2.89	YES						
L0040853	0	0.18050E-06	439897.4	3761854.1	208.2	3.66	5.58
2.89	YES						
L0040854	0	0.18050E-06	439897.4	3761842.1	208.2	3.66	5.58
2.89	YES						
L0040855	0	0.18050E-06	439897.4	3761830.1	208.0	3.66	5.58
2.89	YES						
L0040856	0	0.18050E-06	439897.3	3761818.1	207.9	3.66	5.58
2.89	YES						
L0040857	0	0.18050E-06	439897.3	3761806.1	207.8	3.66	5.58
2.89	YES						
L0040858	0	0.18050E-06	439897.3	3761794.1	207.7	3.66	5.58
2.89	YES						
L0040859	0	0.18050E-06	439897.2	3761782.1	207.6	3.66	5.58
2.89	YES						
L0040860	0	0.18050E-06	439897.2	3761770.1	207.5	3.66	5.58
2.89	YES						
L0040861	0	0.18050E-06	439897.2	3761758.1	207.4	3.66	5.58
2.89	YES						
L0040862	0	0.18050E-06	439897.1	3761746.1	207.3	3.66	5.58
2.89	YES						
L0040863	0	0.18050E-06	439897.1	3761734.1	207.2	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							



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L0040864	0	0.18050E-06	439897.1	3761722.1	207.1	3.66	5.58
2.89	YES						
L0040865	0	0.18050E-06	439897.0	3761710.1	207.0	3.66	5.58
2.89	YES						
L0040866	0	0.18050E-06	439897.0	3761698.1	206.9	3.66	5.58
2.89	YES						
L0040867	0	0.18050E-06	439897.0	3761686.1	206.8	3.66	5.58
2.89	YES						
L0040868	0	0.18050E-06	439896.9	3761674.1	206.7	3.66	5.58
2.89	YES						
L0040869	0	0.18050E-06	439896.9	3761662.1	206.6	3.66	5.58
2.89	YES						
L0040870	0	0.18050E-06	439896.8	3761650.1	206.5	3.66	5.58
2.89	YES						
L0040871	0	0.18050E-06	439896.8	3761638.1	206.4	3.66	5.58
2.89	YES						
L0040872	0	0.18050E-06	439896.8	3761626.1	206.3	3.66	5.58
2.89	YES						
L0040873	0	0.18050E-06	439896.7	3761614.1	206.2	3.66	5.58
2.89	YES						
L0040874	0	0.18050E-06	439896.7	3761602.1	206.1	3.66	5.58
2.89	YES						
L0040875	0	0.18050E-06	439896.7	3761590.1	206.0	3.66	5.58
2.89	YES						
L0040876	0	0.18050E-06	439896.6	3761578.1	205.9	3.66	5.58
2.89	YES						
L0040877	0	0.18050E-06	439896.6	3761566.1	205.8	3.66	5.58
2.89	YES						
L0040878	0	0.18050E-06	439896.6	3761554.1	205.6	3.66	5.58
2.89	YES						
L0040879	0	0.18050E-06	439896.5	3761542.1	205.5	3.66	5.58
2.89	YES						
L0040880	0	0.18050E-06	439896.5	3761530.1	205.3	3.66	5.58
2.89	YES						
L0040881	0	0.18050E-06	439896.5	3761518.1	205.2	3.66	5.58
2.89	YES						
L0040882	0	0.18050E-06	439896.4	3761506.1	205.1	3.66	5.58
2.89	YES						
L0040883	0	0.18050E-06	439896.4	3761494.1	204.9	3.66	5.58
2.89	YES						
L0040884	0	0.18050E-06	439896.4	3761482.1	204.8	3.66	5.58
2.89	YES						
L0040885	0	0.18050E-06	439896.3	3761470.1	204.6	3.66	5.58
2.89	YES						
L0040886	0	0.18050E-06	439896.3	3761458.1	204.5	3.66	5.58
2.89	YES						
L0040887	0	0.18050E-06	439896.3	3761446.1	204.4	3.66	5.58
2.89	YES						

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L0040888	0	0.18050E-06	439896.2	3761434.1	204.2	3.66	5.58
2.89	YES						
L0040889	0	0.18050E-06	439896.2	3761422.1	204.1	3.66	5.58
2.89	YES						
L0040890	0	0.18050E-06	439896.2	3761410.1	203.9	3.66	5.58
2.89	YES						
L0040891	0	0.18050E-06	439896.1	3761398.1	203.8	3.66	5.58
2.89	YES						
L0040892	0	0.18050E-06	439896.1	3761386.1	203.6	3.66	5.58
2.89	YES						
L0040893	0	0.18050E-06	439896.1	3761374.1	203.5	3.66	5.58
2.89	YES						
L0040894	0	0.18050E-06	439896.0	3761362.1	203.3	3.66	5.58
2.89	YES						
L0040895	0	0.18050E-06	439896.0	3761350.1	203.2	3.66	5.58
2.89	YES						
L0040896	0	0.18050E-06	439896.0	3761338.1	203.1	3.66	5.58
2.89	YES						
L0040897	0	0.18050E-06	439895.9	3761326.1	202.9	3.66	5.58
2.89	YES						
L0040898	0	0.18050E-06	439895.9	3761314.1	202.8	3.66	5.58
2.89	YES						
L0040899	0	0.18050E-06	439895.9	3761302.1	202.7	3.66	5.58
2.89	YES						
L0040900	0	0.18050E-06	439895.8	3761290.1	202.6	3.66	5.58
2.89	YES						
L0040901	0	0.18050E-06	439895.8	3761278.1	202.4	3.66	5.58
2.89	YES						
L0040902	0	0.18050E-06	439895.8	3761266.1	202.3	3.66	5.58
2.89	YES						
L0040903	0	0.18050E-06	439895.8	3761254.1	202.2	3.66	5.58
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)

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(METERS)

BY

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L0040904	0	0.18050E-06	439895.8	3761242.1	202.1	3.66	5.58
2.89 YES							
L0040905	0	0.18050E-06	439895.8	3761230.1	202.0	3.66	5.58
2.89 YES							
L0040906	0	0.18050E-06	439895.8	3761218.1	201.9	3.66	5.58
2.89 YES							
L0040907	0	0.18050E-06	439895.8	3761206.1	201.8	3.66	5.58
2.89 YES							
L0040908	0	0.18050E-06	439895.8	3761194.1	201.7	3.66	5.58
2.89 YES							
L0040909	0	0.18050E-06	439895.8	3761182.1	201.6	3.66	5.58
2.89 YES							
L0040910	0	0.18050E-06	439895.8	3761170.1	201.5	3.66	5.58
2.89 YES							
L0040911	0	0.18050E-06	439895.8	3761158.1	201.4	3.66	5.58
2.89 YES							
L0040912	0	0.18050E-06	439895.8	3761146.1	201.2	3.66	5.58
2.89 YES							
L0040913	0	0.18050E-06	439895.8	3761134.1	201.1	3.66	5.58
2.89 YES							
L0040914	0	0.18050E-06	439895.8	3761122.1	201.0	3.66	5.58
2.89 YES							
L0040915	0	0.18050E-06	439895.8	3761110.1	200.9	3.66	5.58
2.89 YES							
L0040916	0	0.18050E-06	439895.8	3761098.1	200.7	3.66	5.58
2.89 YES							
L0040917	0	0.18050E-06	439895.8	3761086.1	200.6	3.66	5.58
2.89 YES							
L0040918	0	0.18050E-06	439895.8	3761074.1	200.5	3.66	5.58
2.89 YES							
L0040919	0	0.18050E-06	439895.8	3761062.1	200.4	3.66	5.58
2.89 YES							
L0040920	0	0.18050E-06	439895.8	3761050.1	200.2	3.66	5.58
2.89 YES							
L0040921	0	0.18050E-06	439895.8	3761038.1	200.1	3.66	5.58
2.89 YES							
L0040922	0	0.18050E-06	439895.8	3761026.1	199.9	3.66	5.58
2.89 YES							
L0040923	0	0.18050E-06	439895.8	3761014.1	199.8	3.66	5.58
2.89 YES							
L0040924	0	0.18050E-06	439895.8	3761002.1	199.6	3.66	5.58
2.89 YES							
L0040925	0	0.18050E-06	439895.8	3760990.1	199.5	3.66	5.58
2.89 YES							

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L0040926	0	0.18050E-06	439895.8	3760978.1	199.3	3.66	5.58
2.89	YES						
L0040927	0	0.18050E-06	439895.8	3760966.1	199.2	3.66	5.58
2.89	YES						
L0040928	0	0.18050E-06	439895.8	3760954.1	199.0	3.66	5.58
2.89	YES						
L0040929	0	0.18050E-06	439895.8	3760942.1	198.9	3.66	5.58
2.89	YES						
L0040930	0	0.18050E-06	439895.8	3760930.1	198.7	3.66	5.58
2.89	YES						
L0040931	0	0.18050E-06	439895.8	3760918.1	198.6	3.66	5.58
2.89	YES						
L0040932	0	0.18050E-06	439895.8	3760906.1	198.4	3.66	5.58
2.89	YES						
L0040933	0	0.18050E-06	439895.8	3760894.1	198.2	3.66	5.58
2.89	YES						
L0040934	0	0.18050E-06	439895.8	3760882.1	198.1	3.66	5.58
2.89	YES						
L0040935	0	0.18050E-06	439895.8	3760870.1	197.9	3.66	5.58
2.89	YES						
L0040936	0	0.18050E-06	439895.8	3760858.1	197.8	3.66	5.58
2.89	YES						
L0040937	0	0.18050E-06	439895.8	3760846.1	197.6	3.66	5.58
2.89	YES						
L0040938	0	0.18050E-06	439895.8	3760834.1	197.4	3.66	5.58
2.89	YES						
L0040939	0	0.18050E-06	439895.8	3760822.1	197.3	3.66	5.58
2.89	YES						
L0040940	0	0.18050E-06	439895.8	3760810.1	197.1	3.66	5.58
2.89	YES						
L0040941	0	0.18050E-06	439895.8	3760798.1	197.0	3.66	5.58
2.89	YES						
L0040942	0	0.18050E-06	439895.8	3760786.1	196.8	3.66	5.58
2.89	YES						
L0040943	0	0.18050E-06	439895.8	3760774.1	196.7	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.

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INIT. SZ	URBAN SOURCE ID (METERS)	EMISSION RATE PART. (GRAMS/SEC) SCALAR VARY CATS. BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
2.89	YES	0 0.18050E-06	439895.8	3760762.1	196.5	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760750.1	196.4	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760738.1	196.2	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760726.1	196.1	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760714.1	196.0	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760702.1	195.9	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760690.1	195.7	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760678.1	195.6	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760666.1	195.5	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760654.1	195.4	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760642.1	195.3	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760630.1	195.2	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760618.1	195.1	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760606.1	195.0	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760594.1	194.9	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760582.1	194.8	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760570.1	194.7	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760558.1	194.6	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760546.1	194.5	3.66	5.58
2.89	YES	0 0.18050E-06	439895.8	3760534.1	194.3	3.66	5.58

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L0040964	0	0.18050E-06	439895.8	3760522.1	194.2	3.66	5.58
2.89	YES						
L0040965	0	0.18050E-06	439895.8	3760510.1	194.1	3.66	5.58
2.89	YES						
L0040966	0	0.18050E-06	439895.8	3760498.1	194.0	3.66	5.58
2.89	YES						
L0040967	0	0.18050E-06	439895.8	3760486.1	193.9	3.66	5.58
2.89	YES						
L0040968	0	0.18050E-06	439895.8	3760474.1	193.8	3.66	5.58
2.89	YES						
L0040969	0	0.12030E-06	439895.9	3760465.5	193.7	3.66	5.58
2.89	YES						
L0040970	0	0.12030E-06	439895.7	3760453.5	193.6	3.66	5.58
2.89	YES						
L0040971	0	0.12030E-06	439895.6	3760441.5	193.5	3.66	5.58
2.89	YES						
L0040972	0	0.12030E-06	439895.4	3760429.5	193.4	3.66	5.58
2.89	YES						
L0040973	0	0.12030E-06	439895.2	3760417.5	193.3	3.66	5.58
2.89	YES						
L0040974	0	0.12030E-06	439895.1	3760405.5	193.2	3.66	5.58
2.89	YES						
L0040975	0	0.12030E-06	439894.9	3760393.5	193.2	3.66	5.58
2.89	YES						
L0040976	0	0.12030E-06	439894.8	3760381.5	193.1	3.66	5.58
2.89	YES						
L0040977	0	0.12030E-06	439894.6	3760369.5	193.0	3.66	5.58
2.89	YES						
L0040978	0	0.12030E-06	439894.5	3760357.5	193.0	3.66	5.58
2.89	YES						
L0040979	0	0.12030E-06	439894.3	3760345.5	192.9	3.66	5.58
2.89	YES						
L0040980	0	0.12030E-06	439894.1	3760333.5	192.8	3.66	5.58
2.89	YES						
L0040981	0	0.12030E-06	439894.0	3760321.5	192.7	3.66	5.58
2.89	YES						
L0040982	0	0.12030E-06	439894.0	3760309.5	192.6	3.66	5.58
2.89	YES						
L0040983	0	0.12030E-06	439894.0	3760297.5	192.5	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault      CONC      ELEV      URBAN      ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY						
L0040984	0	0.12030E-06	439894.0	3760285.5	192.4	3.66	5.58	
2.89	YES							
L0040985	0	0.12030E-06	439894.0	3760273.5	192.3	3.66	5.58	
2.89	YES							
L0040986	0	0.12030E-06	439894.0	3760261.5	192.2	3.66	5.58	
2.89	YES							
L0040987	0	0.12030E-06	439894.1	3760249.5	192.1	3.66	5.58	
2.89	YES							
L0040988	0	0.12030E-06	439894.1	3760237.5	192.0	3.66	5.58	
2.89	YES							
L0040989	0	0.12030E-06	439894.1	3760225.5	191.9	3.66	5.58	
2.89	YES							
L0040990	0	0.12030E-06	439894.1	3760213.5	191.7	3.66	5.58	
2.89	YES							
L0040991	0	0.12030E-06	439894.1	3760201.5	191.6	3.66	5.58	
2.89	YES							
L0040992	0	0.12030E-06	439894.1	3760189.5	191.5	3.66	5.58	
2.89	YES							
L0040993	0	0.12030E-06	439894.1	3760177.5	191.4	3.66	5.58	
2.89	YES							
L0040994	0	0.12030E-06	439894.1	3760165.5	191.4	3.66	5.58	
2.89	YES							
L0040995	0	0.12030E-06	439894.1	3760153.5	191.3	3.66	5.58	
2.89	YES							
L0040996	0	0.12030E-06	439894.1	3760141.5	191.2	3.66	5.58	
2.89	YES							
L0040997	0	0.12030E-06	439894.1	3760129.5	191.2	3.66	5.58	
2.89	YES							
L0040998	0	0.12030E-06	439894.1	3760117.5	191.1	3.66	5.58	
2.89	YES							
L0040999	0	0.12030E-06	439894.1	3760105.5	191.1	3.66	5.58	
2.89	YES							
L0041000	0	0.12030E-06	439894.2	3760093.5	191.0	3.66	5.58	
2.89	YES							
L0041001	0	0.12030E-06	439894.2	3760081.5	191.0	3.66	5.58	
2.89	YES							

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L0041002	0	0.12030E-06	439894.2	3760069.5	190.9	3.66	5.58
2.89	YES						
L0041003	0	0.12030E-06	439894.2	3760057.5	190.9	3.66	5.58
2.89	YES						
L0041004	0	0.12030E-06	439894.2	3760045.5	190.8	3.66	5.58
2.89	YES						
L0041005	0	0.12030E-06	439894.2	3760033.5	190.8	3.66	5.58
2.89	YES						
L0041006	0	0.12030E-06	439894.2	3760021.5	190.7	3.66	5.58
2.89	YES						
L0041007	0	0.12030E-06	439894.2	3760009.5	190.7	3.66	5.58
2.89	YES						
L0041008	0	0.12030E-06	439894.2	3759997.5	190.6	3.66	5.58
2.89	YES						
L0041009	0	0.12030E-06	439894.2	3759985.5	190.5	3.66	5.58
2.89	YES						
L0041010	0	0.12030E-06	439894.2	3759973.5	190.5	3.66	5.58
2.89	YES						
L0041011	0	0.12030E-06	439894.2	3759961.5	190.4	3.66	5.58
2.89	YES						
L0041012	0	0.12030E-06	439894.2	3759949.5	190.3	3.66	5.58
2.89	YES						
L0041013	0	0.12030E-06	439894.1	3759937.5	190.3	3.66	5.58
2.89	YES						
L0041014	0	0.12030E-06	439893.9	3759925.5	190.2	3.66	5.58
2.89	YES						
L0041015	0	0.12030E-06	439893.8	3759913.5	190.1	3.66	5.58
2.89	YES						
L0041016	0	0.12030E-06	439893.7	3759901.5	190.1	3.66	5.58
2.89	YES						
L0041017	0	0.12030E-06	439893.6	3759889.5	190.0	3.66	5.58
2.89	YES						
L0041018	0	0.12030E-06	439893.4	3759877.5	189.9	3.66	5.58
2.89	YES						
L0041019	0	0.12030E-06	439893.3	3759865.5	189.8	3.66	5.58
2.89	YES						
L0041020	0	0.12030E-06	439893.2	3759853.5	189.7	3.66	5.58
2.89	YES						
L0041021	0	0.12030E-06	439893.1	3759841.5	189.6	3.66	5.58
2.89	YES						
L0041022	0	0.12030E-06	439892.9	3759829.5	189.5	3.66	5.58
2.89	YES						
L0041023	0	0.12030E-06	439892.8	3759817.5	189.4	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0041024		0	0.12030E-06	439892.7	3759805.5	189.3	3.66	5.58
2.89	YES							
L0041025		0	0.12030E-06	439892.6	3759793.5	189.2	3.66	5.58
2.89	YES							
L0041026		0	0.12030E-06	439892.4	3759781.5	189.1	3.66	5.58
2.89	YES							
L0041027		0	0.12030E-06	439892.3	3759769.5	189.0	3.66	5.58
2.89	YES							
L0041028		0	0.12030E-06	439892.2	3759757.5	188.9	3.66	5.58
2.89	YES							
L0041029		0	0.12030E-06	439892.0	3759745.5	188.8	3.66	5.58
2.89	YES							
L0041030		0	0.12030E-06	439891.9	3759733.5	188.7	3.66	5.58
2.89	YES							
L0041031		0	0.12030E-06	439891.8	3759721.5	188.6	3.66	5.58
2.89	YES							
L0041032		0	0.12030E-06	439891.7	3759709.5	188.5	3.66	5.58
2.89	YES							
L0041033		0	0.12030E-06	439891.5	3759697.5	188.4	3.66	5.58
2.89	YES							
L0041034		0	0.12030E-06	439891.4	3759685.5	188.3	3.66	5.58
2.89	YES							
L0041035		0	0.12030E-06	439891.3	3759673.5	188.2	3.66	5.58
2.89	YES							
L0041036		0	0.12030E-06	439891.2	3759661.5	188.1	3.66	5.58
2.89	YES							
L0041037		0	0.12030E-06	439891.0	3759649.5	188.0	3.66	5.58
2.89	YES							
L0041038		0	0.12030E-06	439890.9	3759637.5	187.9	3.66	5.58
2.89	YES							
L0041039		0	0.12030E-06	439890.8	3759625.5	187.8	3.66	5.58
2.89	YES							

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L0041040	0	0.12030E-06	439890.7	3759613.5	187.6	3.66	5.58
2.89	YES						
L0041041	0	0.12030E-06	439890.5	3759601.5	187.5	3.66	5.58
2.89	YES						
L0041042	0	0.12030E-06	439890.4	3759589.5	187.4	3.66	5.58
2.89	YES						
L0041043	0	0.12030E-06	439890.3	3759577.5	187.4	3.66	5.58
2.89	YES						
L0041044	0	0.12030E-06	439890.2	3759565.5	187.2	3.66	5.58
2.89	YES						
L0041045	0	0.12030E-06	439890.0	3759553.5	187.2	3.66	5.58
2.89	YES						
L0041046	0	0.12030E-06	439889.9	3759541.5	187.1	3.66	5.58
2.89	YES						
L0041047	0	0.12030E-06	439889.8	3759529.5	187.0	3.66	5.58
2.89	YES						
L0041048	0	0.12030E-06	439889.7	3759517.5	186.9	3.66	5.58
2.89	YES						
L0041049	0	0.12030E-06	439889.6	3759505.5	186.8	3.66	5.58
2.89	YES						
L0041050	0	0.12030E-06	439889.6	3759493.5	186.7	3.66	5.58
2.89	YES						
L0041051	0	0.12030E-06	439889.5	3759481.5	186.6	3.66	5.58
2.89	YES						
L0041052	0	0.12030E-06	439889.5	3759469.5	186.6	3.66	5.58
2.89	YES						
L0041053	0	0.12030E-06	439889.5	3759457.5	186.5	3.66	5.58
2.89	YES						
L0041054	0	0.12030E-06	439889.4	3759445.5	186.4	3.66	5.58
2.89	YES						
L0041055	0	0.12030E-06	439889.4	3759433.5	186.3	3.66	5.58
2.89	YES						
L0041056	0	0.12030E-06	439889.3	3759421.5	186.3	3.66	5.58
2.89	YES						
L0041057	0	0.12030E-06	439889.3	3759409.5	186.2	3.66	5.58
2.89	YES						
L0041058	0	0.12030E-06	439889.3	3759397.5	186.1	3.66	5.58
2.89	YES						
L0041059	0	0.12030E-06	439889.2	3759385.5	186.0	3.66	5.58
2.89	YES						
L0041060	0	0.12030E-06	439889.2	3759373.5	185.9	3.66	5.58
2.89	YES						
L0041061	0	0.12030E-06	439889.1	3759361.5	185.9	3.66	5.58
2.89	YES						
L0041062	0	0.12030E-06	439889.1	3759349.5	185.8	3.66	5.58
2.89	YES						
L0041063	0	0.12030E-06	439889.1	3759337.5	185.7	3.66	5.58
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0041064		0	0.12030E-06	439889.0	3759325.5	185.7	3.66	5.58
2.89	YES							
L0041065		0	0.12030E-06	439889.0	3759313.5	185.6	3.66	5.58
2.89	YES							
L0041066		0	0.12030E-06	439888.9	3759301.5	185.5	3.66	5.58
2.89	YES							
L0041067		0	0.12030E-06	439888.9	3759289.5	185.4	3.66	5.58
2.89	YES							
L0041068		0	0.12030E-06	439888.9	3759277.5	185.4	3.66	5.58
2.89	YES							
L0041069		0	0.12030E-06	439888.8	3759265.5	185.2	3.66	5.58
2.89	YES							
L0041070		0	0.12030E-06	439888.8	3759253.5	185.1	3.66	5.58
2.89	YES							
L0041071		0	0.12030E-06	439888.7	3759241.5	185.0	3.66	5.58
2.89	YES							
L0041072		0	0.12030E-06	439888.7	3759229.5	184.9	3.66	5.58
2.89	YES							
L0041073		0	0.12030E-06	439888.7	3759217.5	184.8	3.66	5.58
2.89	YES							
L0041074		0	0.12030E-06	439888.7	3759205.5	184.7	3.66	5.58
2.89	YES							
L0041075		0	0.12030E-06	439888.8	3759193.5	184.6	3.66	5.58
2.89	YES							
L0041076		0	0.12030E-06	439888.8	3759181.5	184.4	3.66	5.58
2.89	YES							
L0041077		0	0.12030E-06	439888.9	3759169.5	184.3	3.66	5.58
2.89	YES							

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L0041078	0	0.12030E-06	439888.9	3759157.5	184.2	3.66	5.58
2.89	YES						
L0041079	0	0.12030E-06	439889.0	3759145.5	184.1	3.66	5.58
2.89	YES						
L0041080	0	0.12030E-06	439889.0	3759133.5	184.0	3.66	5.58
2.89	YES						
L0041081	0	0.12030E-06	439889.1	3759121.5	183.9	3.66	5.58
2.89	YES						
L0041082	0	0.12030E-06	439889.1	3759109.5	183.8	3.66	5.58
2.89	YES						
L0041083	0	0.12030E-06	439889.2	3759097.5	183.7	3.66	5.58
2.89	YES						
L0041084	0	0.12030E-06	439889.2	3759085.5	183.6	3.66	5.58
2.89	YES						
L0041085	0	0.12030E-06	439889.3	3759073.5	183.6	3.66	5.58
2.89	YES						
L0041086	0	0.12030E-06	439889.2	3759061.5	183.5	3.66	5.58
2.89	YES						
L0041087	0	0.12030E-06	439889.1	3759049.5	183.4	3.66	5.58
2.89	YES						
L0041088	0	0.12030E-06	439889.0	3759037.5	183.4	3.66	5.58
2.89	YES						
L0041089	0	0.12030E-06	439888.9	3759025.5	183.3	3.66	5.58
2.89	YES						
L0041090	0	0.12030E-06	439888.8	3759013.5	183.2	3.66	5.58
2.89	YES						
L0041091	0	0.12030E-06	439888.7	3759001.5	183.2	3.66	5.58
2.89	YES						
L0041092	0	0.12030E-06	439888.6	3758989.5	183.1	3.66	5.58
2.89	YES						
L0041093	0	0.12030E-06	439888.5	3758977.5	183.0	3.66	5.58
2.89	YES						
L0041094	0	0.12030E-06	439888.4	3758965.5	183.0	3.66	5.58
2.89	YES						
L0041095	0	0.12030E-06	439888.3	3758953.5	182.9	3.66	5.58
2.89	YES						
L0041096	0	0.12030E-06	439888.2	3758941.5	182.8	3.66	5.58
2.89	YES						
L0041097	0	0.12030E-06	439888.1	3758929.5	182.7	3.66	5.58
2.89	YES						
L0041098	0	0.12030E-06	439888.0	3758917.5	182.6	3.66	5.58
2.89	YES						
L0041099	0	0.12030E-06	439887.9	3758905.5	182.4	3.66	5.58
2.89	YES						
L0041100	0	0.12030E-06	439887.8	3758893.5	182.3	3.66	5.58
2.89	YES						
L0041101	0	0.12030E-06	439887.6	3758881.5	182.2	3.66	5.58
2.89	YES						

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L0041102            0    0.68180E-07  439900.9 3760465.5    193.7        3.66        2.33  
 2.89    YES  
 L0041103            0    0.68180E-07  439905.9 3760465.4    193.7        3.66        2.33  
 2.89    YES

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0041104	0	0.68180E-07	439910.9	3760465.3	193.7	3.66	2.33
2.89	YES						
L0041105	0	0.68180E-07	439915.9	3760465.3	193.7	3.66	2.33
2.89	YES						
L0041106	0	0.68180E-07	439920.9	3760465.2	193.7	3.66	2.33
2.89	YES						
L0041107	0	0.68180E-07	439925.9	3760465.2	193.7	3.66	2.33
2.89	YES						
L0041108	0	0.68180E-07	439930.9	3760465.1	193.7	3.66	2.33
2.89	YES						
L0041109	0	0.68180E-07	439935.9	3760465.0	193.7	3.66	2.33
2.89	YES						
L0041110	0	0.68180E-07	439940.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041111	0	0.68180E-07	439945.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041112	0	0.68180E-07	439950.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041113	0	0.68180E-07	439955.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041114	0	0.68180E-07	439960.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041115	0	0.68180E-07	439965.9	3760465.0	193.6	3.66	2.33
2.89	YES						

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L0041116	0	0.68180E-07	439970.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041117	0	0.68180E-07	439975.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041118	0	0.68180E-07	439980.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041119	0	0.68180E-07	439985.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041120	0	0.68180E-07	439990.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041121	0	0.68180E-07	439995.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041122	0	0.68180E-07	440000.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041123	0	0.68180E-07	440005.9	3760465.0	193.6	3.66	2.33
2.89	YES						
L0041124	0	0.68180E-07	440010.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041125	0	0.68180E-07	440015.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041126	0	0.68180E-07	440020.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041127	0	0.68180E-07	440025.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041128	0	0.68180E-07	440030.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041129	0	0.68180E-07	440035.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041130	0	0.68180E-07	440040.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041131	0	0.68180E-07	440045.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041132	0	0.68180E-07	440050.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041133	0	0.68180E-07	440055.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041134	0	0.68180E-07	440060.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041135	0	0.68180E-07	440065.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041136	0	0.68180E-07	440070.9	3760465.1	193.6	3.66	2.33
2.89	YES						
L0041137	0	0.68180E-07	440075.9	3760465.1	193.7	3.66	2.33
2.89	YES						
L0041138	0	0.68180E-07	440080.9	3760465.1	193.7	3.66	2.33
2.89	YES						
L0041139	0	0.68180E-07	440085.9	3760465.1	193.7	3.66	2.33
2.89	YES						

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L0041140	0	0.68180E-07	440090.9	3760465.1	193.7	3.66	2.33
2.89	YES						
L0041141	0	0.68180E-07	440095.9	3760465.2	193.7	3.66	2.33
2.89	YES						
L0041142	0	0.68180E-07	440100.9	3760465.2	193.7	3.66	2.33
2.89	YES						
L0041143	0	0.68180E-07	440105.9	3760465.2	193.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0041144	0	0.68180E-07	440110.9	3760465.2	193.7	3.66	2.33
2.89	YES						
L0041145	0	0.68180E-07	440115.9	3760465.3	193.7	3.66	2.33
2.89	YES						
L0041146	0	0.68180E-07	440120.9	3760465.3	193.7	3.66	2.33
2.89	YES						
L0041147	0	0.68180E-07	440125.9	3760465.3	193.7	3.66	2.33
2.89	YES						
L0041148	0	0.68180E-07	440130.9	3760465.3	193.8	3.66	2.33
2.89	YES						
L0041149	0	0.68180E-07	440135.9	3760465.3	193.8	3.66	2.33
2.89	YES						
L0041150	0	0.68180E-07	440140.9	3760465.4	193.8	3.66	2.33
2.89	YES						
L0041151	0	0.68180E-07	440145.9	3760465.4	193.8	3.66	2.33
2.89	YES						
L0041152	0	0.68180E-07	440150.9	3760465.4	193.9	3.66	2.33
2.89	YES						
L0041153	0	0.68180E-07	440155.9	3760465.4	193.9	3.66	2.33
2.89	YES						

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L0041154	0	0.68180E-07	440160.9	3760465.5	193.9	3.66	2.33
2.89	YES						
L0041155	0	0.68180E-07	440165.9	3760465.5	193.9	3.66	2.33
2.89	YES						
L0041156	0	0.68180E-07	440170.9	3760465.5	194.0	3.66	2.33
2.89	YES						
L0041157	0	0.68180E-07	440175.9	3760465.5	194.0	3.66	2.33
2.89	YES						
L0041158	0	0.68180E-07	440180.9	3760465.6	194.0	3.66	2.33
2.89	YES						
L0041159	0	0.68180E-07	440185.9	3760465.6	194.1	3.66	2.33
2.89	YES						
L0041160	0	0.68180E-07	440190.9	3760465.6	194.1	3.66	2.33
2.89	YES						
L0041161	0	0.68180E-07	440195.9	3760465.6	194.1	3.66	2.33
2.89	YES						
L0041162	0	0.68180E-07	440200.9	3760465.7	194.1	3.66	2.33
2.89	YES						
L0041163	0	0.68180E-07	440205.9	3760465.7	194.1	3.66	2.33
2.89	YES						
L0041164	0	0.68180E-07	440210.9	3760465.7	194.2	3.66	2.33
2.89	YES						
L0041165	0	0.68180E-07	440215.9	3760465.7	194.2	3.66	2.33
2.89	YES						
L0041166	0	0.68180E-07	440220.9	3760465.8	194.2	3.66	2.33
2.89	YES						
L0041167	0	0.68180E-07	440225.9	3760465.8	194.2	3.66	2.33
2.89	YES						
L0041168	0	0.68180E-07	440230.9	3760465.8	194.2	3.66	2.33
2.89	YES						
L0041169	0	0.68180E-07	440235.9	3760465.8	194.3	3.66	2.33
2.89	YES						
L0041170	0	0.68180E-07	440240.9	3760465.9	194.3	3.66	2.33
2.89	YES						
L0041171	0	0.68180E-07	440245.9	3760465.9	194.3	3.66	2.33
2.89	YES						
L0041172	0	0.68180E-07	440250.9	3760465.9	194.4	3.66	2.33
2.89	YES						
L0041173	0	0.68180E-07	440255.9	3760465.9	194.4	3.66	2.33
2.89	YES						
L0041174	0	0.68180E-07	440260.9	3760466.0	194.4	3.66	2.33
2.89	YES						
L0041175	0	0.68180E-07	440265.9	3760466.0	194.5	3.66	2.33
2.89	YES						
L0041176	0	0.68180E-07	440270.9	3760466.0	194.5	3.66	2.33
2.89	YES						
L0041177	0	0.68180E-07	440275.9	3760466.0	194.5	3.66	2.33
2.89	YES						



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L0041178	0	0.68180E-07	440280.9	3760466.1	194.6	3.66	2.33
2.89	YES						
L0041179	0	0.68180E-07	440285.9	3760466.1	194.6	3.66	2.33
2.89	YES						
L0041180	0	0.68180E-07	440290.9	3760466.1	194.6	3.66	2.33
2.89	YES						
L0041181	0	0.68180E-07	440295.9	3760466.1	194.6	3.66	2.33
2.89	YES						
L0041182	0	0.68180E-07	440300.9	3760466.2	194.6	3.66	2.33
2.89	YES						
L0041183	0	0.68180E-07	440305.9	3760466.2	194.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0041184	0	0.68180E-07	440310.9	3760466.2	194.7	3.66	2.33	
2.89	YES							
L0041185	0	0.68180E-07	440315.9	3760466.2	194.7	3.66	2.33	
2.89	YES							
L0041186	0	0.68180E-07	440320.9	3760466.3	194.7	3.66	2.33	
2.89	YES							
L0041187	0	0.68180E-07	440325.9	3760466.3	194.7	3.66	2.33	
2.89	YES							
L0041188	0	0.68180E-07	440330.9	3760466.3	194.7	3.66	2.33	
2.89	YES							
L0041189	0	0.68180E-07	440335.9	3760466.3	194.8	3.66	2.33	
2.89	YES							
L0041190	0	0.68180E-07	440340.9	3760466.3	194.8	3.66	2.33	
2.89	YES							
L0041191	0	0.68180E-07	440345.9	3760466.4	194.8	3.66	2.33	
2.89	YES							

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L0041192	0	0.68180E-07	440350.9	3760466.4	194.8	3.66	2.33
2.89	YES						
L0041193	0	0.68180E-07	440355.9	3760466.4	194.8	3.66	2.33
2.89	YES						
L0041194	0	0.68180E-07	440360.9	3760466.4	194.9	3.66	2.33
2.89	YES						
L0041195	0	0.68180E-07	440365.9	3760466.5	194.9	3.66	2.33
2.89	YES						
L0041196	0	0.68180E-07	440370.9	3760466.5	195.0	3.66	2.33
2.89	YES						
L0041197	0	0.68180E-07	440375.9	3760466.5	195.1	3.66	2.33
2.89	YES						
L0041198	0	0.68180E-07	440380.9	3760466.5	195.1	3.66	2.33
2.89	YES						
L0041199	0	0.68180E-07	440385.9	3760466.6	195.2	3.66	2.33
2.89	YES						
L0041200	0	0.68180E-07	440390.9	3760466.6	195.2	3.66	2.33
2.89	YES						
L0041201	0	0.68180E-07	440395.9	3760466.6	195.2	3.66	2.33
2.89	YES						
L0041202	0	0.68180E-07	440400.9	3760466.6	195.2	3.66	2.33
2.89	YES						
L0041203	0	0.68180E-07	440405.9	3760466.7	195.3	3.66	2.33
2.89	YES						
L0041204	0	0.68180E-07	440410.9	3760466.7	195.3	3.66	2.33
2.89	YES						
L0041205	0	0.68180E-07	440415.9	3760466.7	195.2	3.66	2.33
2.89	YES						
L0041206	0	0.68180E-07	440420.9	3760466.7	195.2	3.66	2.33
2.89	YES						
L0041207	0	0.68180E-07	440425.9	3760466.8	195.2	3.66	2.33
2.89	YES						
L0041208	0	0.68180E-07	440430.9	3760466.8	195.1	3.66	2.33
2.89	YES						
L0041209	0	0.68180E-07	440435.9	3760466.8	195.1	3.66	2.33
2.89	YES						
L0041210	0	0.68180E-07	440440.9	3760466.8	195.1	3.66	2.33
2.89	YES						
L0041211	0	0.68180E-07	440445.9	3760466.8	195.1	3.66	2.33
2.89	YES						
L0041212	0	0.68180E-07	440450.9	3760466.9	195.1	3.66	2.33
2.89	YES						
L0041213	0	0.68180E-07	440455.9	3760466.9	195.1	3.66	2.33
2.89	YES						
L0041214	0	0.68180E-07	440460.9	3760466.9	195.1	3.66	2.33
2.89	YES						
L0041215	0	0.68180E-07	440465.9	3760466.9	195.1	3.66	2.33
2.89	YES						

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L0041216	0	0.68180E-07	440470.9	3760467.0	195.1	3.66	2.33
2.89	YES						
L0041217	0	0.68180E-07	440475.9	3760467.0	195.2	3.66	2.33
2.89	YES						
L0041218	0	0.68180E-07	440480.9	3760467.0	195.2	3.66	2.33
2.89	YES						
L0041219	0	0.68180E-07	440485.9	3760467.0	195.2	3.66	2.33
2.89	YES						
L0041220	0	0.68180E-07	440490.9	3760467.1	195.2	3.66	2.33
2.89	YES						
L0041221	0	0.68180E-07	440495.9	3760467.1	195.2	3.66	2.33
2.89	YES						
L0041222	0	0.68180E-07	440500.9	3760467.1	195.2	3.66	2.33
2.89	YES						
L0041223	0	0.68180E-07	440505.9	3760467.1	195.2	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY					
L0041224	0	0.68180E-07	440510.9	3760467.1	195.2	3.66	2.33	
2.89	YES							
L0041225	0	0.68180E-07	440515.9	3760467.1	195.2	3.66	2.33	
2.89	YES							
L0041226	0	0.68180E-07	440520.9	3760467.1	195.3	3.66	2.33	
2.89	YES							
L0041227	0	0.68180E-07	440525.9	3760467.1	195.3	3.66	2.33	
2.89	YES							
L0041228	0	0.68180E-07	440530.9	3760467.1	195.3	3.66	2.33	
2.89	YES							
L0041229	0	0.68180E-07	440535.9	3760467.1	195.3	3.66	2.33	
2.89	YES							

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L0041230	0	0.68180E-07	440540.9	3760467.1	195.3	3.66	2.33
2.89	YES						
L0041231	0	0.68180E-07	440545.9	3760467.1	195.3	3.66	2.33
2.89	YES						
L0041232	0	0.68180E-07	440550.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041233	0	0.68180E-07	440555.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041234	0	0.68180E-07	440560.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041235	0	0.68180E-07	440565.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041236	0	0.68180E-07	440570.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041237	0	0.68180E-07	440575.9	3760467.1	195.4	3.66	2.33
2.89	YES						
L0041238	0	0.68180E-07	440580.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041239	0	0.68180E-07	440585.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041240	0	0.68180E-07	440590.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041241	0	0.68180E-07	440595.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041242	0	0.68180E-07	440600.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041243	0	0.68180E-07	440605.9	3760467.1	195.5	3.66	2.33
2.89	YES						
L0041244	0	0.68180E-07	440610.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041245	0	0.68180E-07	440615.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041246	0	0.68180E-07	440620.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041247	0	0.68180E-07	440625.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041248	0	0.68180E-07	440630.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041249	0	0.68180E-07	440635.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041250	0	0.68180E-07	440640.9	3760467.1	195.6	3.66	2.33
2.89	YES						
L0041251	0	0.68180E-07	440645.9	3760467.1	195.7	3.66	2.33
2.89	YES						
L0041252	0	0.68180E-07	440650.9	3760467.1	195.7	3.66	2.33
2.89	YES						
L0041253	0	0.68180E-07	440655.9	3760467.1	195.7	3.66	2.33
2.89	YES						

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L0041254	0	0.68180E-07	440660.9	3760467.1	195.7	3.66	2.33
2.89	YES						
L0041255	0	0.68180E-07	440665.9	3760467.1	195.7	3.66	2.33
2.89	YES						
L0041256	0	0.68180E-07	440670.9	3760467.1	195.8	3.66	2.33
2.89	YES						
L0041257	0	0.68180E-07	440675.9	3760467.1	195.8	3.66	2.33
2.89	YES						
L0041258	0	0.68180E-07	440680.9	3760467.1	195.8	3.66	2.33
2.89	YES						
L0041259	0	0.68180E-07	440685.9	3760467.1	195.8	3.66	2.33
2.89	YES						
L0041260	0	0.68180E-07	440690.9	3760467.1	195.9	3.66	2.33
2.89	YES						
L0041261	0	0.68180E-07	440695.9	3760467.1	195.9	3.66	2.33
2.89	YES						
L0041262	0	0.68180E-07	440700.9	3760467.1	195.9	3.66	2.33
2.89	YES						
L0041263	0	0.68180E-07	440705.9	3760467.1	195.9	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0041264	0	0.68180E-07	440710.9	3760467.1	196.0	3.66	2.33
2.89	YES						
L0041265	0	0.68180E-07	440715.9	3760467.1	196.0	3.66	2.33
2.89	YES						
L0041266	0	0.68180E-07	440720.9	3760467.1	196.0	3.66	2.33
2.89	YES						
L0041267	0	0.68180E-07	440725.9	3760467.1	196.1	3.66	2.33
2.89	YES						

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L0041268	0	0.68180E-07	440730.9	3760467.1	196.1	3.66	2.33
2.89 YES							
L0041269	0	0.68180E-07	440735.9	3760467.1	196.1	3.66	2.33
2.89 YES							
L0041270	0	0.68180E-07	440740.9	3760467.1	196.2	3.66	2.33
2.89 YES							
L0041271	0	0.68180E-07	440745.9	3760467.1	196.2	3.66	2.33
2.89 YES							
L0041272	0	0.68180E-07	440750.9	3760467.1	196.3	3.66	2.33
2.89 YES							
L0041273	0	0.68180E-07	440755.9	3760467.1	196.4	3.66	2.33
2.89 YES							
L0041274	0	0.68180E-07	440760.9	3760467.1	196.5	3.66	2.33
2.89 YES							
L0041275	0	0.68180E-07	440765.9	3760467.1	196.5	3.66	2.33
2.89 YES							
L0041276	0	0.68180E-07	440770.9	3760467.1	196.6	3.66	2.33
2.89 YES							
L0041277	0	0.68180E-07	440775.9	3760467.1	196.6	3.66	2.33
2.89 YES							
L0041278	0	0.68070E-07	441996.7	3760466.5	199.9	3.66	2.33
2.89 YES							
L0041279	0	0.68070E-07	442001.7	3760466.5	199.8	3.66	2.33
2.89 YES							
L0041280	0	0.68070E-07	442006.7	3760466.6	199.9	3.66	2.33
2.89 YES							
L0041281	0	0.68070E-07	442011.7	3760466.6	200.0	3.66	2.33
2.89 YES							
L0041282	0	0.68070E-07	442016.7	3760466.6	200.1	3.66	2.33
2.89 YES							
L0041283	0	0.68070E-07	442021.7	3760466.6	200.2	3.66	2.33
2.89 YES							
L0041284	0	0.68070E-07	442026.7	3760466.6	200.3	3.66	2.33
2.89 YES							
L0041285	0	0.68070E-07	442031.7	3760466.6	200.3	3.66	2.33
2.89 YES							
L0041286	0	0.68070E-07	442036.7	3760466.6	200.3	3.66	2.33
2.89 YES							
L0041287	0	0.68070E-07	442041.7	3760466.6	200.3	3.66	2.33
2.89 YES							
L0041288	0	0.68070E-07	442046.7	3760466.7	200.3	3.66	2.33
2.89 YES							
L0041289	0	0.68070E-07	442051.7	3760466.7	200.4	3.66	2.33
2.89 YES							
L0041290	0	0.68070E-07	442056.7	3760466.7	200.4	3.66	2.33
2.89 YES							
L0041291	0	0.68070E-07	442061.7	3760466.7	200.4	3.66	2.33
2.89 YES							

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L0041292	0	0.68070E-07	442066.7	3760466.7	200.4	3.66	2.33
2.89	YES						
L0041293	0	0.68070E-07	442071.7	3760466.7	200.4	3.66	2.33
2.89	YES						
L0041294	0	0.68070E-07	442076.7	3760466.7	200.4	3.66	2.33
2.89	YES						
L0041295	0	0.68070E-07	442081.7	3760466.7	200.4	3.66	2.33
2.89	YES						
L0041296	0	0.68070E-07	442086.7	3760466.8	200.4	3.66	2.33
2.89	YES						
L0041297	0	0.68070E-07	442091.7	3760466.8	200.4	3.66	2.33
2.89	YES						
L0041298	0	0.68070E-07	442096.7	3760466.8	200.4	3.66	2.33
2.89	YES						
L0041299	0	0.68070E-07	442101.7	3760466.8	200.4	3.66	2.33
2.89	YES						
L0041300	0	0.68070E-07	442106.7	3760466.8	200.4	3.66	2.33
2.89	YES						
L0041301	0	0.68070E-07	442111.7	3760466.8	200.3	3.66	2.33
2.89	YES						
L0041302	0	0.68070E-07	442116.7	3760466.8	200.3	3.66	2.33
2.89	YES						
L0041303	0	0.68070E-07	442121.7	3760466.8	200.3	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0041304	0	0.68070E-07	442126.7	3760466.9	200.3	3.66	2.33
2.89	YES						
L0041305	0	0.68070E-07	442131.7	3760466.9	200.3	3.66	2.33
2.89	YES						

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L0041306	0	0.68070E-07	442136.7	3760466.9	200.3	3.66	2.33
2.89 YES							
L0041307	0	0.68070E-07	442141.7	3760466.9	200.3	3.66	2.33
2.89 YES							
L0041308	0	0.68070E-07	442146.7	3760466.9	200.3	3.66	2.33
2.89 YES							
L0041309	0	0.68070E-07	442151.7	3760466.9	200.4	3.66	2.33
2.89 YES							
L0041310	0	0.68070E-07	442156.7	3760466.9	200.4	3.66	2.33
2.89 YES							
L0041311	0	0.68070E-07	442161.7	3760466.9	200.4	3.66	2.33
2.89 YES							
L0041312	0	0.68070E-07	442166.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041313	0	0.68070E-07	442171.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041314	0	0.68070E-07	442176.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041315	0	0.68070E-07	442181.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041316	0	0.68070E-07	442186.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041317	0	0.68070E-07	442191.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041318	0	0.68070E-07	442196.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041319	0	0.68070E-07	442201.7	3760467.0	200.4	3.66	2.33
2.89 YES							
L0041320	0	0.68070E-07	442206.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041321	0	0.68070E-07	442211.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041322	0	0.68070E-07	442216.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041323	0	0.68070E-07	442221.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041324	0	0.68070E-07	442226.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041325	0	0.68070E-07	442231.7	3760467.1	200.4	3.66	2.33
2.89 YES							
L0041326	0	0.68070E-07	442236.7	3760467.1	200.5	3.66	2.33
2.89 YES							
L0041327	0	0.68070E-07	442241.7	3760467.1	200.5	3.66	2.33
2.89 YES							
L0041328	0	0.68070E-07	442246.7	3760467.2	200.5	3.66	2.33
2.89 YES							
L0041329	0	0.68070E-07	442251.7	3760467.2	200.5	3.66	2.33
2.89 YES							



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L0041330	0	0.68070E-07	442256.7	3760467.2	200.5	3.66	2.33
2.89	YES						
L0041331	0	0.68070E-07	442261.7	3760467.2	200.6	3.66	2.33
2.89	YES						
L0041332	0	0.68070E-07	442266.7	3760467.2	200.6	3.66	2.33
2.89	YES						
L0041333	0	0.68070E-07	442271.7	3760467.2	200.6	3.66	2.33
2.89	YES						
L0041334	0	0.68070E-07	442276.7	3760467.2	200.6	3.66	2.33
2.89	YES						
L0041335	0	0.68070E-07	442281.7	3760467.2	200.6	3.66	2.33
2.89	YES						
L0041336	0	0.68070E-07	442286.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041337	0	0.68070E-07	442291.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041338	0	0.68070E-07	442296.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041339	0	0.68070E-07	442301.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041340	0	0.68070E-07	442306.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041341	0	0.68070E-07	442311.7	3760467.3	200.7	3.66	2.33
2.89	YES						
L0041342	0	0.68070E-07	442316.7	3760467.3	200.8	3.66	2.33
2.89	YES						
L0041343	0	0.68070E-07	442321.7	3760467.3	200.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

SOL\_operations\_rev2.ADO

L0041344	0	0.68070E-07	442326.7	3760467.4	200.8	3.66	2.33
2.89 YES							
L0041345	0	0.68070E-07	442331.7	3760467.4	200.9	3.66	2.33
2.89 YES							
L0041346	0	0.68070E-07	442336.7	3760467.4	200.9	3.66	2.33
2.89 YES							
L0041347	0	0.68070E-07	442341.7	3760467.4	200.9	3.66	2.33
2.89 YES							
L0041348	0	0.68070E-07	442346.7	3760467.5	200.9	3.66	2.33
2.89 YES							
L0041349	0	0.68070E-07	442351.7	3760467.6	201.0	3.66	2.33
2.89 YES							
L0041350	0	0.68070E-07	442356.7	3760467.7	201.0	3.66	2.33
2.89 YES							
L0041351	0	0.68070E-07	442361.7	3760467.7	201.0	3.66	2.33
2.89 YES							
L0041352	0	0.68070E-07	442366.7	3760467.8	201.0	3.66	2.33
2.89 YES							
L0041353	0	0.68070E-07	442371.7	3760467.9	201.0	3.66	2.33
2.89 YES							
L0041354	0	0.68070E-07	442376.7	3760468.0	201.0	3.66	2.33
2.89 YES							
L0041355	0	0.68070E-07	442381.7	3760468.1	201.0	3.66	2.33
2.89 YES							
L0041356	0	0.68070E-07	442386.7	3760468.1	201.0	3.66	2.33
2.89 YES							
L0041357	0	0.68070E-07	442391.7	3760468.2	201.0	3.66	2.33
2.89 YES							
L0041358	0	0.68070E-07	442396.7	3760468.3	201.0	3.66	2.33
2.89 YES							
L0041359	0	0.68070E-07	442401.7	3760468.4	201.1	3.66	2.33
2.89 YES							
L0041360	0	0.68070E-07	442406.7	3760468.4	201.1	3.66	2.33
2.89 YES							
L0041361	0	0.68070E-07	442411.7	3760468.5	201.1	3.66	2.33
2.89 YES							
L0041362	0	0.68070E-07	442416.7	3760468.6	201.1	3.66	2.33
2.89 YES							
L0041363	0	0.68070E-07	442421.7	3760468.7	201.1	3.66	2.33
2.89 YES							
L0041364	0	0.68070E-07	442426.7	3760468.7	201.2	3.66	2.33
2.89 YES							
L0041365	0	0.68070E-07	442431.7	3760468.8	201.2	3.66	2.33
2.89 YES							
L0041366	0	0.68070E-07	442436.7	3760468.9	201.2	3.66	2.33
2.89 YES							
L0041367	0	0.68070E-07	442441.7	3760469.0	201.2	3.66	2.33
2.89 YES							

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L0041368	0	0.68070E-07	442446.7	3760469.0	201.2	3.66	2.33
2.89	YES						
L0041369	0	0.68070E-07	442451.7	3760469.1	201.2	3.66	2.33
2.89	YES						
L0041370	0	0.68070E-07	442456.7	3760469.2	201.2	3.66	2.33
2.89	YES						
L0041371	0	0.68070E-07	442461.7	3760469.3	201.2	3.66	2.33
2.89	YES						
L0041372	0	0.68070E-07	442466.7	3760469.3	201.2	3.66	2.33
2.89	YES						
L0041373	0	0.68070E-07	442471.7	3760469.4	201.2	3.66	2.33
2.89	YES						
L0041374	0	0.68070E-07	442476.7	3760469.5	201.2	3.66	2.33
2.89	YES						
L0041375	0	0.68070E-07	442481.7	3760469.6	201.1	3.66	2.33
2.89	YES						
L0041376	0	0.68070E-07	442486.7	3760469.6	201.1	3.66	2.33
2.89	YES						
L0041377	0	0.68070E-07	442491.7	3760469.7	201.1	3.66	2.33
2.89	YES						
L0041378	0	0.68070E-07	442496.7	3760469.8	201.1	3.66	2.33
2.89	YES						
L0041379	0	0.68070E-07	442501.7	3760469.9	201.1	3.66	2.33
2.89	YES						
L0041380	0	0.68070E-07	442506.7	3760469.9	201.1	3.66	2.33
2.89	YES						
L0041381	0	0.68070E-07	442511.7	3760469.8	201.1	3.66	2.33
2.89	YES						
L0041382	0	0.68070E-07	442516.7	3760469.8	201.1	3.66	2.33
2.89	YES						
L0041383	0	0.68070E-07	442521.7	3760469.7	201.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)

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(METERS)

BY

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L0041384	0	0.68070E-07	442526.7	3760469.7	201.1	3.66	2.33
2.89 YES							
L0041385	0	0.68070E-07	442531.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0041386	0	0.68070E-07	442536.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0041387	0	0.68070E-07	442541.7	3760469.5	201.0	3.66	2.33
2.89 YES							
L0041388	0	0.68070E-07	442546.7	3760469.5	201.0	3.66	2.33
2.89 YES							
L0041389	0	0.68070E-07	442551.7	3760469.4	201.0	3.66	2.33
2.89 YES							
L0041390	0	0.68070E-07	442556.7	3760469.4	201.0	3.66	2.33
2.89 YES							
L0041391	0	0.68070E-07	442561.7	3760469.3	201.0	3.66	2.33
2.89 YES							
L0041392	0	0.68070E-07	442566.7	3760469.3	201.0	3.66	2.33
2.89 YES							
L0041393	0	0.68070E-07	442571.7	3760469.2	201.0	3.66	2.33
2.89 YES							
L0041394	0	0.68070E-07	442576.7	3760469.2	201.0	3.66	2.33
2.89 YES							
L0041395	0	0.68070E-07	442581.7	3760469.1	200.9	3.66	2.33
2.89 YES							
L0041396	0	0.68070E-07	442586.7	3760469.1	200.9	3.66	2.33
2.89 YES							
L0041397	0	0.68070E-07	442591.7	3760469.0	200.9	3.66	2.33
2.89 YES							
L0041398	0	0.68070E-07	442596.7	3760469.0	200.9	3.66	2.33
2.89 YES							
L0041399	0	0.68070E-07	442601.7	3760468.9	200.9	3.66	2.33
2.89 YES							
L0041400	0	0.68070E-07	442606.7	3760468.9	200.9	3.66	2.33
2.89 YES							
L0041401	0	0.68070E-07	442611.7	3760468.8	200.9	3.66	2.33
2.89 YES							
L0041402	0	0.68070E-07	442616.7	3760468.8	200.9	3.66	2.33
2.89 YES							
L0041403	0	0.68070E-07	442621.7	3760468.7	200.9	3.66	2.33
2.89 YES							
L0041404	0	0.68070E-07	442626.7	3760468.7	200.9	3.66	2.33
2.89 YES							
L0041405	0	0.68070E-07	442631.7	3760468.6	200.9	3.66	2.33
2.89 YES							

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L0041406	0	0.68070E-07	442636.7	3760468.6	200.9	3.66	2.33
2.89 YES							
L0041407	0	0.68070E-07	442641.7	3760468.5	200.9	3.66	2.33
2.89 YES							
L0041408	0	0.68070E-07	442646.7	3760468.5	200.9	3.66	2.33
2.89 YES							
L0041409	0	0.68070E-07	442651.7	3760468.4	200.9	3.66	2.33
2.89 YES							
L0041410	0	0.68070E-07	442656.7	3760468.4	200.9	3.66	2.33
2.89 YES							
L0041411	0	0.68070E-07	442661.7	3760468.3	200.9	3.66	2.33
2.89 YES							
L0041412	0	0.68070E-07	442666.7	3760468.3	200.9	3.66	2.33
2.89 YES							
L0041413	0	0.68070E-07	442671.7	3760468.2	200.9	3.66	2.33
2.89 YES							
L0041414	0	0.68070E-07	442676.7	3760468.2	200.8	3.66	2.33
2.89 YES							
L0041415	0	0.68070E-07	442681.7	3760468.1	200.8	3.66	2.33
2.89 YES							
L0041416	0	0.68070E-07	442686.7	3760468.1	200.8	3.66	2.33
2.89 YES							
L0041417	0	0.68070E-07	442691.7	3760468.0	200.8	3.66	2.33
2.89 YES							
L0041418	0	0.68070E-07	442696.7	3760468.0	200.8	3.66	2.33
2.89 YES							
L0041419	0	0.68070E-07	442701.7	3760467.9	200.8	3.66	2.33
2.89 YES							
L0041420	0	0.68070E-07	442706.7	3760467.9	200.8	3.66	2.33
2.89 YES							
L0041421	0	0.68070E-07	442711.7	3760467.8	200.8	3.66	2.33
2.89 YES							
L0041422	0	0.68070E-07	442716.7	3760467.8	200.8	3.66	2.33
2.89 YES							
L0041423	0	0.68070E-07	442721.7	3760467.7	200.8	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.
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INIT. SOURCE SZ	URBAN SOURCE ID	EMISSION RATE PART. SCALAR	(GRAMS/SEC) VARY	X	Y	ELEV.	HEIGHT	SY
		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0041424		0	0.68070E-07	442726.7	3760467.7	200.9	3.66	2.33
2.89	YES							
L0041425		0	0.68070E-07	442731.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0041426		0	0.68070E-07	442736.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0041427		0	0.68070E-07	442741.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0041428		0	0.68070E-07	442746.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0041429		0	0.68070E-07	442751.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0041430		0	0.68070E-07	442756.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0041431		0	0.68070E-07	442761.7	3760467.3	200.9	3.66	2.33
2.89	YES							
L0041432		0	0.68070E-07	442766.7	3760467.3	200.8	3.66	2.33
2.89	YES							
L0041433		0	0.68070E-07	442771.7	3760467.2	200.8	3.66	2.33
2.89	YES							
L0041434		0	0.68070E-07	442776.7	3760467.2	200.8	3.66	2.33
2.89	YES							
L0041435		0	0.68070E-07	442781.7	3760467.1	200.8	3.66	2.33
2.89	YES							
L0041436		0	0.68070E-07	442786.7	3760467.1	200.8	3.66	2.33
2.89	YES							
L0041437		0	0.68070E-07	442791.7	3760467.0	200.8	3.66	2.33
2.89	YES							
L0041438		0	0.68070E-07	442796.7	3760467.0	200.8	3.66	2.33
2.89	YES							
L0041439		0	0.68070E-07	442801.7	3760466.9	200.8	3.66	2.33
2.89	YES							
L0041440		0	0.68070E-07	442806.7	3760466.9	200.8	3.66	2.33
2.89	YES							
L0041441		0	0.68070E-07	442811.7	3760466.8	200.8	3.66	2.33
2.89	YES							
L0041442		0	0.68070E-07	442816.7	3760466.8	200.8	3.66	2.33
2.89	YES							
L0041443		0	0.68070E-07	442821.7	3760466.7	200.8	3.66	2.33
2.89	YES							

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L0041444	0	0.68070E-07	442826.7	3760466.7	200.8	3.66	2.33
2.89	YES						
L0041445	0	0.68070E-07	442831.7	3760466.6	200.8	3.66	2.33
2.89	YES						
L0041446	0	0.68070E-07	442836.7	3760466.6	200.9	3.66	2.33
2.89	YES						
L0041447	0	0.68070E-07	442841.7	3760466.5	200.9	3.66	2.33
2.89	YES						
L0041448	0	0.68070E-07	442846.7	3760466.5	200.9	3.66	2.33
2.89	YES						
L0041449	0	0.68070E-07	442851.7	3760466.4	200.9	3.66	2.33
2.89	YES						
L0041450	0	0.68070E-07	442856.7	3760466.4	201.0	3.66	2.33
2.89	YES						
L0041451	0	0.68070E-07	442861.7	3760466.4	201.0	3.66	2.33
2.89	YES						
L0041452	0	0.68070E-07	442866.7	3760466.4	201.0	3.66	2.33
2.89	YES						
L0041453	0	0.68070E-07	442871.7	3760466.3	201.0	3.66	2.33
2.89	YES						
L0041454	0	0.68070E-07	442876.7	3760466.3	201.1	3.66	2.33
2.89	YES						
L0041455	0	0.68070E-07	442881.7	3760466.3	201.1	3.66	2.33
2.89	YES						
L0041456	0	0.68070E-07	442886.7	3760466.3	201.1	3.66	2.33
2.89	YES						
L0041457	0	0.68070E-07	442891.7	3760466.3	201.1	3.66	2.33
2.89	YES						
L0041458	0	0.68070E-07	442896.7	3760466.3	201.1	3.66	2.33
2.89	YES						
L0041459	0	0.68070E-07	442901.7	3760466.2	201.1	3.66	2.33
2.89	YES						
L0041460	0	0.68070E-07	442906.7	3760466.2	201.1	3.66	2.33
2.89	YES						
L0041461	0	0.68070E-07	442911.7	3760466.2	201.2	3.66	2.33
2.89	YES						
L0041462	0	0.68070E-07	442916.7	3760466.2	201.2	3.66	2.33
2.89	YES						
L0041463	0	0.68070E-07	442921.7	3760466.2	201.2	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault      CONC      ELEV      URBAN      ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0041464	0	0.68070E-07	442926.7	3760466.1	201.2	3.66	2.33	
2.89	YES							
L0041465	0	0.68070E-07	442931.7	3760466.1	201.2	3.66	2.33	
2.89	YES							
L0041466	0	0.68070E-07	442936.7	3760466.1	201.3	3.66	2.33	
2.89	YES							
L0041467	0	0.68070E-07	442941.7	3760466.1	201.3	3.66	2.33	
2.89	YES							
L0041468	0	0.68070E-07	442946.7	3760466.1	201.3	3.66	2.33	
2.89	YES							
L0041469	0	0.68070E-07	442951.7	3760466.1	201.3	3.66	2.33	
2.89	YES							
L0041470	0	0.68070E-07	442956.7	3760466.0	201.4	3.66	2.33	
2.89	YES							
L0041471	0	0.68070E-07	442961.7	3760466.0	201.4	3.66	2.33	
2.89	YES							
L0041472	0	0.68070E-07	442966.7	3760466.0	201.4	3.66	2.33	
2.89	YES							
L0041473	0	0.68070E-07	442971.7	3760466.0	201.4	3.66	2.33	
2.89	YES							
L0041474	0	0.68070E-07	442976.7	3760466.0	201.4	3.66	2.33	
2.89	YES							
L0041475	0	0.68070E-07	442981.7	3760466.0	201.5	3.66	2.33	
2.89	YES							
L0041476	0	0.68070E-07	442986.7	3760466.0	201.6	3.66	2.33	
2.89	YES							
L0041477	0	0.68070E-07	442991.7	3760466.0	201.6	3.66	2.33	
2.89	YES							
L0041478	0	0.68070E-07	442996.7	3760466.0	201.7	3.66	2.33	
2.89	YES							
L0041479	0	0.68070E-07	443001.7	3760466.0	201.8	3.66	2.33	
2.89	YES							
L0041480	0	0.68070E-07	443006.7	3760466.0	201.8	3.66	2.33	
2.89	YES							
L0041481	0	0.68070E-07	443011.7	3760466.0	201.8	3.66	2.33	
2.89	YES							



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L0041482	0	0.68070E-07	443016.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041483	0	0.68070E-07	443021.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041484	0	0.68070E-07	443026.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041485	0	0.68070E-07	443031.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041486	0	0.68070E-07	443036.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041487	0	0.68070E-07	443041.7	3760466.0	201.8	3.66	2.33
2.89	YES						
L0041488	0	0.68070E-07	443046.7	3760466.0	201.7	3.66	2.33
2.89	YES						
L0041489	0	0.68070E-07	443051.7	3760466.0	201.7	3.66	2.33
2.89	YES						
L0041490	0	0.68070E-07	443056.7	3760466.1	201.7	3.66	2.33
2.89	YES						
L0041491	0	0.68070E-07	443061.7	3760466.1	201.7	3.66	2.33
2.89	YES						
L0041492	0	0.68070E-07	443066.7	3760466.1	201.7	3.66	2.33
2.89	YES						
L0041493	0	0.68070E-07	443071.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041494	0	0.68070E-07	443076.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041495	0	0.68070E-07	443081.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041496	0	0.68070E-07	443086.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041497	0	0.68070E-07	443091.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041498	0	0.68070E-07	443096.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041499	0	0.68070E-07	443101.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041500	0	0.68070E-07	443106.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041501	0	0.68070E-07	443111.7	3760466.1	201.8	3.66	2.33
2.89	YES						
L0041502	0	0.68070E-07	443116.7	3760466.1	201.9	3.66	2.33
2.89	YES						
L0041503	0	0.68070E-07	443121.7	3760466.2	201.9	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      17:50:42

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0041504		0	0.68070E-07	443126.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0041505		0	0.68070E-07	443131.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0041506		0	0.68070E-07	443136.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0041507		0	0.68070E-07	443141.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0041508		0	0.68070E-07	443146.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0041509		0	0.68070E-07	443151.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0041510		0	0.68070E-07	443156.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0041511		0	0.68070E-07	443161.7	3760466.2	202.1	3.66	2.33
2.89	YES							
L0041512		0	0.68070E-07	443166.7	3760466.2	202.1	3.66	2.33
2.89	YES							
L0041513		0	0.68070E-07	443171.7	3760466.2	202.2	3.66	2.33
2.89	YES							
L0041514		0	0.68070E-07	443176.7	3760466.2	202.2	3.66	2.33
2.89	YES							
L0041515		0	0.68070E-07	443181.7	3760466.2	202.3	3.66	2.33
2.89	YES							
L0041516		0	0.68070E-07	443186.7	3760466.2	202.3	3.66	2.33
2.89	YES							
L0041517		0	0.68070E-07	443191.7	3760466.3	202.4	3.66	2.33
2.89	YES							
L0041518		0	0.68070E-07	443196.7	3760466.3	202.5	3.66	2.33
2.89	YES							
L0041519		0	0.68070E-07	443201.7	3760466.3	202.6	3.66	2.33
2.89	YES							

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L0041520	0	0.68070E-07	443206.7	3760466.3	202.7	3.66	2.33
2.89 YES							
L0041521	0	0.68070E-07	443211.7	3760466.3	202.7	3.66	2.33
2.89 YES							
L0041522	0	0.68070E-07	443216.7	3760466.3	202.7	3.66	2.33
2.89 YES							
L0041523	0	0.68070E-07	443221.7	3760466.3	202.7	3.66	2.33
2.89 YES							
L0041524	0	0.68070E-07	443226.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041525	0	0.68070E-07	443231.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041526	0	0.68070E-07	443236.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041527	0	0.68070E-07	443241.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041528	0	0.68070E-07	443246.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041529	0	0.68070E-07	443251.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041530	0	0.68070E-07	443256.7	3760466.3	202.8	3.66	2.33
2.89 YES							
L0041531	0	0.68070E-07	443261.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041532	0	0.68070E-07	443266.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041533	0	0.68070E-07	443271.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041534	0	0.68070E-07	443276.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041535	0	0.68070E-07	443281.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041536	0	0.68070E-07	443286.7	3760466.4	202.8	3.66	2.33
2.89 YES							
L0041537	0	0.68070E-07	443291.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041538	0	0.68070E-07	443296.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041539	0	0.68070E-07	443301.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041540	0	0.68070E-07	443306.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041541	0	0.68070E-07	443311.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041542	0	0.68070E-07	443316.7	3760466.4	202.9	3.66	2.33
2.89 YES							
L0041543	0	0.68070E-07	443321.7	3760466.4	202.9	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	(GRAMS/SEC)	X	Y	(METERS)	(METERS)
(METERS)		CATS.	VARY	(METERS)	(METERS)	(METERS)	(METERS)
		BY					
L0041544		0	0.68070E-07	443326.7	3760466.3	203.0	2.33
2.89	YES						
L0041545		0	0.68070E-07	443331.7	3760466.3	203.0	2.33
2.89	YES						
L0041546		0	0.68070E-07	443336.7	3760466.3	203.0	2.33
2.89	YES						
L0041547		0	0.68070E-07	443341.7	3760466.3	203.0	2.33
2.89	YES						
L0041548		0	0.68070E-07	443346.7	3760466.3	203.0	2.33
2.89	YES						
L0041549		0	0.68070E-07	443351.7	3760466.3	203.0	2.33
2.89	YES						
L0041550		0	0.68070E-07	443356.7	3760466.3	203.1	2.33
2.89	YES						
L0041551		0	0.68070E-07	443361.7	3760466.3	203.1	2.33
2.89	YES						
L0041552		0	0.68070E-07	443366.7	3760466.3	203.1	2.33
2.89	YES						
L0041553		0	0.68070E-07	443371.7	3760466.3	203.1	2.33
2.89	YES						
L0041554		0	0.68070E-07	443376.7	3760466.3	203.1	2.33
2.89	YES						
L0041555		0	0.68070E-07	443381.7	3760466.3	203.1	2.33
2.89	YES						
L0041556		0	0.68070E-07	443386.7	3760466.3	203.2	2.33
2.89	YES						
L0041557		0	0.68070E-07	443391.7	3760466.3	203.2	2.33
2.89	YES						

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L0041558	0	0.68070E-07	443396.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041559	0	0.68070E-07	443401.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041560	0	0.68070E-07	443406.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041561	0	0.68070E-07	443411.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041562	0	0.68070E-07	443416.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041563	0	0.68070E-07	443421.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041564	0	0.68070E-07	443426.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041565	0	0.68070E-07	443431.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041566	0	0.68070E-07	443436.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041567	0	0.68070E-07	443441.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041568	0	0.68070E-07	443446.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041569	0	0.68070E-07	443451.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041570	0	0.68070E-07	443456.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0041571	0	0.68070E-07	443461.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0041572	0	0.68070E-07	443466.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0041573	0	0.68070E-07	443471.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0041574	0	0.68070E-07	443476.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041575	0	0.68070E-07	443481.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041576	0	0.68070E-07	443486.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041577	0	0.68070E-07	443491.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041578	0	0.68070E-07	443496.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041579	0	0.68070E-07	443501.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041580	0	0.68070E-07	443506.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0041581	0	0.68070E-07	443511.7	3760466.1	203.3	3.66	2.33
2.89 YES							

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L0041582            0    0.68070E-07   443516.7 3760466.1    203.3        3.66        2.33  
 2.89        YES  
 L0041583            0    0.68070E-07   443521.7 3760466.1    203.2        3.66        2.33  
 2.89        YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*        \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*        \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0041584	0	0.68070E-07	443526.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041585	0	0.68070E-07	443531.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041586	0	0.68070E-07	443536.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041587	0	0.68070E-07	443541.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041588	0	0.68070E-07	443546.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041589	0	0.68070E-07	443551.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041590	0	0.68070E-07	443556.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041591	0	0.68070E-07	443561.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041592	0	0.68070E-07	443566.7	3760466.0	203.2	3.66	2.33
2.89	YES						
L0041593	0	0.68070E-07	443571.7	3760466.0	203.3	3.66	2.33
2.89	YES						
L0041594	0	0.68070E-07	443576.7	3760466.0	203.3	3.66	2.33
2.89	YES						
L0041595	0	0.68070E-07	443581.7	3760466.0	203.3	3.66	2.33
2.89	YES						

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L0041596	0	0.68070E-07	443586.7	3760466.0	203.3	3.66	2.33
2.89 YES							
L0041597	0	0.68070E-07	443591.7	3760465.9	203.3	3.66	2.33
2.89 YES							
L0041598	0	0.68070E-07	443596.7	3760465.9	203.3	3.66	2.33
2.89 YES							
L0041599	0	0.68070E-07	443601.7	3760465.9	203.3	3.66	2.33
2.89 YES							
L0041600	0	0.68070E-07	443606.7	3760465.9	203.3	3.66	2.33
2.89 YES							
L0041601	0	0.68070E-07	443611.7	3760465.9	203.3	3.66	2.33
2.89 YES							
L0041602	0	0.68070E-07	443616.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041603	0	0.68070E-07	443621.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041604	0	0.68070E-07	443626.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041605	0	0.68070E-07	443631.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041606	0	0.68070E-07	443636.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041607	0	0.68070E-07	443641.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041608	0	0.68070E-07	443646.7	3760465.9	203.4	3.66	2.33
2.89 YES							
L0041609	0	0.68070E-07	443651.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041610	0	0.68070E-07	443656.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041611	0	0.68070E-07	443661.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041612	0	0.68070E-07	443666.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041613	0	0.68070E-07	443671.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041614	0	0.68070E-07	443676.7	3760465.9	203.5	3.66	2.33
2.89 YES							
L0041615	0	0.68070E-07	443681.7	3760466.0	203.5	3.66	2.33
2.89 YES							
L0041616	0	0.68070E-07	443686.7	3760466.0	203.5	3.66	2.33
2.89 YES							
L0041617	0	0.68070E-07	443691.7	3760466.0	203.5	3.66	2.33
2.89 YES							
L0041618	0	0.68070E-07	443696.7	3760466.1	203.5	3.66	2.33
2.89 YES							
L0041619	0	0.68070E-07	443701.7	3760466.1	203.6	3.66	2.33
2.89 YES							

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L0041620	0	0.68070E-07	443706.7	3760466.1	203.6	3.66	2.33
2.89	YES						
L0041621	0	0.68070E-07	443711.7	3760466.2	203.6	3.66	2.33
2.89	YES						
L0041622	0	0.68070E-07	443716.7	3760466.2	203.6	3.66	2.33
2.89	YES						
L0041623	0	0.68070E-07	443721.7	3760466.2	203.6	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0041624	0	0.68070E-07	443726.7	3760466.3	203.6	3.66	2.33
2.89	YES						
L0041625	0	0.68070E-07	443731.7	3760466.3	203.6	3.66	2.33
2.89	YES						
L0041626	0	0.68070E-07	443736.7	3760466.3	203.6	3.66	2.33
2.89	YES						
L0041627	0	0.68070E-07	443741.7	3760466.4	203.6	3.66	2.33
2.89	YES						
L0041628	0	0.68070E-07	443746.7	3760466.4	203.7	3.66	2.33
2.89	YES						
L0041629	0	0.68070E-07	443751.7	3760466.4	203.7	3.66	2.33
2.89	YES						
L0041630	0	0.68070E-07	443756.7	3760466.5	203.7	3.66	2.33
2.89	YES						
L0041631	0	0.68070E-07	443761.7	3760466.5	203.7	3.66	2.33
2.89	YES						
L0041632	0	0.68070E-07	443766.7	3760466.5	203.7	3.66	2.33
2.89	YES						
L0041633	0	0.68070E-07	443771.7	3760466.6	203.7	3.66	2.33
2.89	YES						



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L0041634	0	0.68070E-07	443776.7	3760466.6	203.8	3.66	2.33
2.89 YES							
L0041635	0	0.68070E-07	443781.7	3760466.6	203.8	3.66	2.33
2.89 YES							
L0041636	0	0.68070E-07	443786.7	3760466.7	203.8	3.66	2.33
2.89 YES							
L0041637	0	0.68070E-07	443791.7	3760466.7	203.8	3.66	2.33
2.89 YES							
L0041638	0	0.68070E-07	443796.7	3760466.7	203.9	3.66	2.33
2.89 YES							
L0041639	0	0.68070E-07	443801.7	3760466.8	203.9	3.66	2.33
2.89 YES							
L0041640	0	0.68070E-07	443806.7	3760466.8	203.9	3.66	2.33
2.89 YES							
L0041641	0	0.68070E-07	443811.7	3760466.8	203.9	3.66	2.33
2.89 YES							
L0041642	0	0.68070E-07	443816.7	3760466.9	204.0	3.66	2.33
2.89 YES							
L0041643	0	0.68070E-07	443821.7	3760466.9	204.0	3.66	2.33
2.89 YES							
L0041644	0	0.68070E-07	443826.7	3760466.9	204.0	3.66	2.33
2.89 YES							
L0041645	0	0.68070E-07	443831.7	3760467.0	204.0	3.66	2.33
2.89 YES							
L0041646	0	0.68070E-07	443836.7	3760467.0	204.0	3.66	2.33
2.89 YES							
L0041647	0	0.68070E-07	443841.7	3760467.0	204.1	3.66	2.33
2.89 YES							
L0041648	0	0.68070E-07	443846.7	3760467.1	204.1	3.66	2.33
2.89 YES							
L0041649	0	0.68070E-07	443851.7	3760467.1	204.1	3.66	2.33
2.89 YES							
L0041650	0	0.68070E-07	443856.7	3760467.1	204.2	3.66	2.33
2.89 YES							
L0041651	0	0.68070E-07	443861.7	3760467.2	204.2	3.66	2.33
2.89 YES							
L0041652	0	0.68070E-07	443866.7	3760467.2	204.2	3.66	2.33
2.89 YES							
L0041653	0	0.68070E-07	443871.7	3760467.2	204.3	3.66	2.33
2.89 YES							
L0041654	0	0.68070E-07	443876.7	3760467.3	204.3	3.66	2.33
2.89 YES							
L0041655	0	0.68070E-07	443881.7	3760467.3	204.3	3.66	2.33
2.89 YES							
L0041656	0	0.68070E-07	443886.7	3760467.3	204.3	3.66	2.33
2.89 YES							
L0041657	0	0.68070E-07	443891.7	3760467.3	204.3	3.66	2.33
2.89 YES							

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L0041658	0	0.68070E-07	443896.7	3760467.3	204.3	3.66	2.33
2.89	YES						
L0041659	0	0.68070E-07	443901.7	3760467.3	204.3	3.66	2.33
2.89	YES						
L0041660	0	0.68070E-07	443906.7	3760467.3	204.3	3.66	2.33
2.89	YES						
L0041661	0	0.68070E-07	443911.7	3760467.3	204.3	3.66	2.33
2.89	YES						
L0041662	0	0.68070E-07	443916.7	3760467.3	204.4	3.66	2.33
2.89	YES						
L0041663	0	0.68070E-07	443921.7	3760467.3	204.4	3.66	2.33
2.89	YES						

^ \*\*\* AERMOD - VERSION 19191 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y	(METERS)	(METERS)
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)
L0041664	0	0.68070E-07	443926.7	3760467.3	204.4	3.66	2.33	
2.89	YES							
L0041665	0	0.68070E-07	443931.7	3760467.3	204.4	3.66	2.33	
2.89	YES							
L0041666	0	0.68070E-07	443936.7	3760467.3	204.4	3.66	2.33	
2.89	YES							
L0041667	0	0.68070E-07	443941.7	3760467.3	204.4	3.66	2.33	
2.89	YES							
L0041668	0	0.68070E-07	443946.7	3760467.3	204.5	3.66	2.33	
2.89	YES							
L0041669	0	0.68070E-07	443951.7	3760467.3	204.5	3.66	2.33	
2.89	YES							
L0041670	0	0.68070E-07	443956.7	3760467.3	204.4	3.66	2.33	
2.89	YES							
L0041671	0	0.68070E-07	443961.7	3760467.3	204.4	3.66	2.33	
2.89	YES							

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L0041672	0	0.68070E-07	443966.7	3760467.3	204.4	3.66	2.33
2.89 YES							
L0041673	0	0.68070E-07	443971.7	3760467.3	204.3	3.66	2.33
2.89 YES							
L0041674	0	0.68070E-07	443976.7	3760467.3	204.3	3.66	2.33
2.89 YES							
L0041675	0	0.68070E-07	443981.7	3760467.3	204.2	3.66	2.33
2.89 YES							
L0041676	0	0.68070E-07	443986.7	3760467.1	204.1	3.66	2.33
2.89 YES							
L0041677	0	0.68070E-07	443991.6	3760466.1	204.1	3.66	2.33
2.89 YES							
L0041678	0	0.68070E-07	443996.5	3760465.1	204.0	3.66	2.33
2.89 YES							
L0041679	0	0.68070E-07	444001.4	3760464.1	203.9	3.66	2.33
2.89 YES							
L0041680	0	0.68070E-07	444006.3	3760463.1	203.8	3.66	2.33
2.89 YES							
L0041681	0	0.68070E-07	444011.2	3760462.1	203.7	3.66	2.33
2.89 YES							
L0041682	0	0.68070E-07	444016.1	3760461.1	203.6	3.66	2.33
2.89 YES							
L0041683	0	0.68070E-07	444021.0	3760460.1	203.6	3.66	2.33
2.89 YES							
L0041684	0	0.68070E-07	444025.9	3760459.1	203.5	3.66	2.33
2.89 YES							
L0041685	0	0.68070E-07	444030.8	3760458.1	203.4	3.66	2.33
2.89 YES							
L0041686	0	0.68070E-07	444035.6	3760456.9	203.4	3.66	2.33
2.89 YES							
L0041687	0	0.68070E-07	444040.2	3760454.9	203.4	3.66	2.33
2.89 YES							
L0041688	0	0.68070E-07	444044.7	3760452.9	203.3	3.66	2.33
2.89 YES							
L0041689	0	0.68070E-07	444049.3	3760450.9	203.3	3.66	2.33
2.89 YES							
L0041690	0	0.68070E-07	444053.9	3760448.9	203.3	3.66	2.33
2.89 YES							
L0041691	0	0.68070E-07	444058.5	3760446.8	203.2	3.66	2.33
2.89 YES							
L0041692	0	0.68070E-07	444063.1	3760444.8	203.2	3.66	2.33
2.89 YES							
L0041693	0	0.68070E-07	444067.6	3760442.8	203.1	3.66	2.33
2.89 YES							
L0041694	0	0.68070E-07	444072.2	3760440.8	203.1	3.66	2.33
2.89 YES							
L0041695	0	0.68070E-07	444076.8	3760438.8	203.0	3.66	2.33
2.89 YES							

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L0041696	0	0.68070E-07	444081.4	3760436.8	203.0	3.66	2.33
2.89	YES						
L0041697	0	0.68070E-07	444086.0	3760434.8	202.9	3.66	2.33
2.89	YES						
L0041698	0	0.68070E-07	444090.7	3760433.3	202.9	3.66	2.33
2.89	YES						
L0041699	0	0.68070E-07	444095.5	3760431.8	202.8	3.66	2.33
2.89	YES						
L0041700	0	0.68070E-07	444100.3	3760430.3	202.8	3.66	2.33
2.89	YES						
L0041701	0	0.68070E-07	444105.0	3760428.8	202.7	3.66	2.33
2.89	YES						
L0041702	0	0.68070E-07	444109.8	3760427.4	202.7	3.66	2.33
2.89	YES						
L0041703	0	0.68070E-07	444114.6	3760425.9	202.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	SY
ID	SOURCE	SCALAR	VARY		ELEV.	HEIGHT	
(METERS)		CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		BY					
L0041704	0	0.68070E-07	444119.4	3760424.4	202.7	3.66	2.33
2.89	YES						
L0041705	0	0.68070E-07	444124.2	3760422.9	202.6	3.66	2.33
2.89	YES						
L0041706	0	0.68070E-07	444128.9	3760421.5	202.6	3.66	2.33
2.89	YES						
L0041707	0	0.68070E-07	444133.7	3760420.0	202.6	3.66	2.33
2.89	YES						
L0041708	0	0.68070E-07	444138.6	3760418.9	202.5	3.66	2.33
2.89	YES						
L0041709	0	0.68070E-07	444143.5	3760418.4	202.5	3.66	2.33
2.89	YES						

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L0041710	0	0.68070E-07	444148.5	3760417.8	202.4	3.66	2.33
2.89	YES						
L0041711	0	0.68070E-07	444153.5	3760417.2	202.4	3.66	2.33
2.89	YES						
L0041712	0	0.68070E-07	444158.4	3760416.6	202.3	3.66	2.33
2.89	YES						
L0041713	0	0.68070E-07	444163.4	3760416.0	202.3	3.66	2.33
2.89	YES						
L0041714	0	0.68070E-07	444168.4	3760415.5	202.3	3.66	2.33
2.89	YES						
L0041715	0	0.68070E-07	444173.3	3760414.9	202.2	3.66	2.33
2.89	YES						
L0041716	0	0.68070E-07	444178.3	3760414.3	202.2	3.66	2.33
2.89	YES						
L0041717	0	0.68070E-07	444183.3	3760413.7	202.2	3.66	2.33
2.89	YES						
L0041718	0	0.68070E-07	444188.2	3760413.2	202.2	3.66	2.33
2.89	YES						
L0041719	0	0.68070E-07	444193.2	3760412.6	202.2	3.66	2.33
2.89	YES						
L0041720	0	0.68070E-07	444198.2	3760412.4	202.1	3.66	2.33
2.89	YES						
L0041721	0	0.68070E-07	444203.2	3760412.3	202.1	3.66	2.33
2.89	YES						
L0041722	0	0.68070E-07	444208.2	3760412.3	202.1	3.66	2.33
2.89	YES						
L0041723	0	0.68070E-07	444213.2	3760412.2	202.1	3.66	2.33
2.89	YES						
L0041724	0	0.68070E-07	444218.2	3760412.2	202.1	3.66	2.33
2.89	YES						
L0041725	0	0.68070E-07	444223.2	3760412.1	202.1	3.66	2.33
2.89	YES						
L0041726	0	0.68070E-07	444228.2	3760412.1	202.1	3.66	2.33
2.89	YES						
L0041727	0	0.68070E-07	444233.2	3760412.1	202.0	3.66	2.33
2.89	YES						
L0041728	0	0.68070E-07	444238.2	3760412.0	202.0	3.66	2.33
2.89	YES						
L0041729	0	0.68070E-07	444243.2	3760412.0	202.0	3.66	2.33
2.89	YES						
L0041730	0	0.68070E-07	444248.2	3760411.9	202.0	3.66	2.33
2.89	YES						
L0041731	0	0.68070E-07	444253.2	3760411.9	202.0	3.66	2.33
2.89	YES						
L0041732	0	0.68070E-07	444258.2	3760411.8	202.0	3.66	2.33
2.89	YES						
L0041733	0	0.68070E-07	444263.2	3760411.8	202.0	3.66	2.33
2.89	YES						

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L0041734	0	0.68070E-07	444268.2	3760411.7	202.0	3.66	2.33
2.89	YES						
L0041735	0	0.68070E-07	444273.2	3760411.7	202.0	3.66	2.33
2.89	YES						
L0041736	0	0.68070E-07	444278.2	3760411.7	202.0	3.66	2.33
2.89	YES						
L0041737	0	0.68070E-07	444283.2	3760411.6	202.0	3.66	2.33
2.89	YES						
L0041738	0	0.68070E-07	444288.2	3760411.6	202.0	3.66	2.33
2.89	YES						
L0041739	0	0.68070E-07	444293.2	3760411.5	202.0	3.66	2.33
2.89	YES						
L0041740	0	0.68070E-07	444298.2	3760411.5	202.0	3.66	2.33
2.89	YES						
L0041741	0	0.68070E-07	444303.2	3760411.4	202.0	3.66	2.33
2.89	YES						
L0041742	0	0.68070E-07	444308.2	3760411.4	202.0	3.66	2.33
2.89	YES						
L0041743	0	0.68070E-07	444313.2	3760411.3	202.0	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0041744	0	0.68070E-07	444318.2	3760411.2	202.0	3.66	2.33
2.89	YES						
L0041745	0	0.68070E-07	444323.2	3760411.2	202.0	3.66	2.33
2.89	YES						
L0041746	0	0.68070E-07	444328.2	3760411.1	202.0	3.66	2.33
2.89	YES						
L0041747	0	0.68070E-07	444333.2	3760411.0	202.0	3.66	2.33
2.89	YES						

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L0041748	0	0.68070E-07	444338.2	3760411.0	202.0	3.66	2.33
2.89	YES						
L0041749	0	0.68070E-07	444343.2	3760410.9	202.0	3.66	2.33
2.89	YES						
L0041750	0	0.68070E-07	444348.2	3760410.8	202.0	3.66	2.33
2.89	YES						
L0041751	0	0.68070E-07	444353.2	3760410.8	202.0	3.66	2.33
2.89	YES						
L0041752	0	0.68070E-07	444358.2	3760410.7	202.0	3.66	2.33
2.89	YES						
L0041753	0	0.68070E-07	444363.2	3760410.6	202.0	3.66	2.33
2.89	YES						
L0041754	0	0.68070E-07	444368.2	3760410.6	202.0	3.66	2.33
2.89	YES						
L0041755	0	0.68070E-07	444373.2	3760410.5	202.0	3.66	2.33
2.89	YES						
L0041756	0	0.68070E-07	444378.2	3760410.5	202.0	3.66	2.33
2.89	YES						
L0041757	0	0.68070E-07	444383.2	3760410.4	201.9	3.66	2.33
2.89	YES						
L0041758	0	0.68070E-07	444388.2	3760410.3	201.9	3.66	2.33
2.89	YES						
L0041759	0	0.68070E-07	444393.2	3760410.3	201.9	3.66	2.33
2.89	YES						
L0041760	0	0.68070E-07	444398.2	3760410.2	201.9	3.66	2.33
2.89	YES						
L0041761	0	0.68070E-07	444403.2	3760410.1	201.8	3.66	2.33
2.89	YES						
L0041762	0	0.68070E-07	444408.2	3760410.1	201.8	3.66	2.33
2.89	YES						
L0041763	0	0.68070E-07	444413.2	3760410.0	201.7	3.66	2.33
2.89	YES						
L0041764	0	0.68070E-07	444418.2	3760409.9	201.7	3.66	2.33
2.89	YES						
L0041765	0	0.68070E-07	444423.2	3760409.9	201.7	3.66	2.33
2.89	YES						
L0041766	0	0.68070E-07	444428.2	3760409.8	201.7	3.66	2.33
2.89	YES						
L0041767	0	0.68070E-07	444433.2	3760409.7	201.7	3.66	2.33
2.89	YES						
L0041768	0	0.68070E-07	444438.2	3760409.7	201.7	3.66	2.33
2.89	YES						
L0041769	0	0.68070E-07	444443.2	3760409.6	201.7	3.66	2.33
2.89	YES						
L0041770	0	0.68070E-07	444448.2	3760409.5	201.7	3.66	2.33
2.89	YES						
L0041771	0	0.68070E-07	444453.2	3760409.5	201.7	3.66	2.33
2.89	YES						

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L0041772	0	0.68070E-07	444458.2	3760409.4	201.7	3.66	2.33
2.89	YES						
L0041773	0	0.68070E-07	444463.2	3760409.4	201.7	3.66	2.33
2.89	YES						
L0041774	0	0.68070E-07	444468.2	3760409.3	201.8	3.66	2.33
2.89	YES						
L0041775	0	0.68070E-07	444473.2	3760409.3	201.8	3.66	2.33
2.89	YES						
L0041776	0	0.68070E-07	444478.2	3760409.3	201.8	3.66	2.33
2.89	YES						
L0041777	0	0.68070E-07	444483.2	3760409.3	201.8	3.66	2.33
2.89	YES						
L0041778	0	0.68070E-07	444488.2	3760409.3	201.8	3.66	2.33
2.89	YES						
L0041779	0	0.68070E-07	444493.2	3760409.4	201.8	3.66	2.33
2.89	YES						
L0041780	0	0.68070E-07	444498.2	3760409.4	201.9	3.66	2.33
2.89	YES						
L0041781	0	0.68070E-07	444503.2	3760409.4	201.9	3.66	2.33
2.89	YES						
L0041782	0	0.68070E-07	444508.2	3760409.4	201.9	3.66	2.33
2.89	YES						
L0041783	0	0.68070E-07	444513.2	3760409.4	201.9	3.66	2.33
2.89	YES						

^ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0041784	0	0.68070E-07	444518.2	3760409.4	201.9	3.66	2.33
2.89	YES						
L0041785	0	0.68070E-07	444523.2	3760409.5	201.9	3.66	2.33
2.89	YES						



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L0041786	0	0.68070E-07	444528.2	3760409.5	201.9	3.66	2.33
2.89	YES						
L0041787	0	0.68070E-07	444533.2	3760409.5	202.0	3.66	2.33
2.89	YES						
L0041788	0	0.68070E-07	444538.2	3760409.5	202.0	3.66	2.33
2.89	YES						
L0041789	0	0.68070E-07	444543.2	3760409.5	202.0	3.66	2.33
2.89	YES						
L0041790	0	0.68070E-07	444548.2	3760409.6	202.0	3.66	2.33
2.89	YES						
L0041791	0	0.68070E-07	444553.2	3760409.6	202.1	3.66	2.33
2.89	YES						
L0041792	0	0.68070E-07	444558.2	3760409.6	202.1	3.66	2.33
2.89	YES						
L0041793	0	0.68070E-07	444563.2	3760409.6	202.1	3.66	2.33
2.89	YES						
L0041794	0	0.68070E-07	444568.2	3760409.6	202.1	3.66	2.33
2.89	YES						
L0041795	0	0.68070E-07	444573.2	3760409.6	202.1	3.66	2.33
2.89	YES						
L0041796	0	0.68070E-07	444578.2	3760409.7	202.1	3.66	2.33
2.89	YES						
L0041797	0	0.68070E-07	444583.2	3760409.7	202.1	3.66	2.33
2.89	YES						
L0041798	0	0.68070E-07	444588.2	3760409.7	202.1	3.66	2.33
2.89	YES						
L0041799	0	0.68070E-07	444593.2	3760409.7	202.0	3.66	2.33
2.89	YES						
L0041800	0	0.68070E-07	444598.2	3760409.7	201.2	3.66	2.33
2.89	YES						
L0041801	0	0.68070E-07	444603.2	3760409.8	200.4	3.66	2.33
2.89	YES						
L0041802	0	0.68070E-07	444608.2	3760409.8	199.7	3.66	2.33
2.89	YES						
L0041803	0	0.68070E-07	444613.2	3760409.8	198.9	3.66	2.33
2.89	YES						
L0041804	0	0.68070E-07	444618.2	3760409.8	198.1	3.66	2.33
2.89	YES						
L0041805	0	0.68070E-07	444623.2	3760409.8	198.0	3.66	2.33
2.89	YES						
L0041806	0	0.68070E-07	444628.2	3760409.9	197.9	3.66	2.33
2.89	YES						
L0041807	0	0.68070E-07	444633.2	3760409.9	197.8	3.66	2.33
2.89	YES						
L0041808	0	0.68070E-07	444638.2	3760409.9	197.7	3.66	2.33
2.89	YES						
L0041809	0	0.68070E-07	444643.2	3760409.9	197.6	3.66	2.33
2.89	YES						

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L0041810	0	0.68070E-07	444648.2	3760409.7	198.3	3.66	2.33
2.89	YES						
L0041811	0	0.68070E-07	444653.2	3760409.5	199.2	3.66	2.33
2.89	YES						
L0041812	0	0.68070E-07	444658.2	3760409.4	200.0	3.66	2.33
2.89	YES						
L0041813	0	0.68070E-07	444663.2	3760409.2	200.9	3.66	2.33
2.89	YES						
L0041814	0	0.68070E-07	444668.2	3760409.1	201.7	3.66	2.33
2.89	YES						
L0041815	0	0.68070E-07	444673.2	3760408.9	202.0	3.66	2.33
2.89	YES						
L0041816	0	0.68070E-07	444678.2	3760408.7	202.0	3.66	2.33
2.89	YES						
L0041817	0	0.68070E-07	444683.2	3760408.6	202.0	3.66	2.33
2.89	YES						
L0041818	0	0.68070E-07	444688.2	3760408.4	202.1	3.66	2.33
2.89	YES						
L0041819	0	0.68070E-07	444693.2	3760408.3	202.1	3.66	2.33
2.89	YES						
L0041820	0	0.68070E-07	444698.2	3760408.1	202.1	3.66	2.33
2.89	YES						
L0041821	0	0.68070E-07	444703.1	3760408.0	202.0	3.66	2.33
2.89	YES						
L0041822	0	0.68070E-07	444708.1	3760407.8	202.0	3.66	2.33
2.89	YES						
L0041823	0	0.68070E-07	444713.1	3760407.6	201.9	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

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L0041824	0	0.68070E-07	444718.1	3760407.5	201.9	3.66	2.33
2.89	YES						
L0041825	0	0.68070E-07	444723.1	3760407.3	201.8	3.66	2.33
2.89	YES						
L0041826	0	0.68070E-07	444728.1	3760407.2	201.8	3.66	2.33
2.89	YES						
L0041827	0	0.68070E-07	444733.1	3760407.0	201.7	3.66	2.33
2.89	YES						
L0041828	0	0.68070E-07	444738.1	3760406.9	201.7	3.66	2.33
2.89	YES						
L0041829	0	0.68070E-07	444743.1	3760406.7	201.7	3.66	2.33
2.89	YES						
L0041830	0	0.68070E-07	444748.1	3760406.5	201.6	3.66	2.33
2.89	YES						
L0041831	0	0.68070E-07	444753.1	3760406.4	201.5	3.66	2.33
2.89	YES						
L0041832	0	0.68070E-07	444758.1	3760406.2	201.4	3.66	2.33
2.89	YES						
L0041833	0	0.68070E-07	444763.1	3760406.1	201.3	3.66	2.33
2.89	YES						
L0041834	0	0.68070E-07	444768.1	3760405.9	201.2	3.66	2.33
2.89	YES						
L0041835	0	0.68070E-07	444773.1	3760405.7	201.1	3.66	2.33
2.89	YES						
L0041836	0	0.68070E-07	444778.1	3760405.6	201.0	3.66	2.33
2.89	YES						
L0041837	0	0.68070E-07	444783.1	3760405.4	201.0	3.66	2.33
2.89	YES						
L0041838	0	0.68070E-07	444788.1	3760405.3	200.9	3.66	2.33
2.89	YES						
L0041839	0	0.68070E-07	444793.1	3760405.1	200.8	3.66	2.33
2.89	YES						
L0041840	0	0.68070E-07	444798.1	3760405.0	200.8	3.66	2.33
2.89	YES						
L0041841	0	0.68070E-07	444803.1	3760404.8	200.9	3.66	2.33
2.89	YES						
L0041842	0	0.68070E-07	444808.1	3760404.6	201.0	3.66	2.33
2.89	YES						
L0041843	0	0.68070E-07	444813.1	3760404.5	201.1	3.66	2.33
2.89	YES						
L0041844	0	0.68070E-07	444818.1	3760404.3	201.2	3.66	2.33
2.89	YES						
L0041845	0	0.68070E-07	444823.1	3760404.2	201.3	3.66	2.33
2.89	YES						
L0041846	0	0.68070E-07	444828.1	3760404.0	201.3	3.66	2.33
2.89	YES						
L0041847	0	0.68070E-07	444833.1	3760403.8	201.3	3.66	2.33
2.89	YES						

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L0041848	0	0.68070E-07	444838.1	3760403.7	201.3	3.66	2.33
2.89	YES						
L0041849	0	0.68070E-07	444843.1	3760403.5	201.3	3.66	2.33
2.89	YES						
L0041850	0	0.68070E-07	444848.1	3760403.4	201.2	3.66	2.33
2.89	YES						
L0041851	0	0.68070E-07	444853.1	3760403.3	201.2	3.66	2.33
2.89	YES						
L0041852	0	0.68070E-07	444858.1	3760403.2	201.2	3.66	2.33
2.89	YES						
L0041853	0	0.68070E-07	444863.1	3760403.1	201.2	3.66	2.33
2.89	YES						
L0041854	0	0.68070E-07	444868.1	3760403.1	201.1	3.66	2.33
2.89	YES						
L0041855	0	0.68070E-07	444873.1	3760403.0	201.1	3.66	2.33
2.89	YES						
L0041856	0	0.68070E-07	444878.1	3760402.9	201.1	3.66	2.33
2.89	YES						
L0041857	0	0.68070E-07	444883.1	3760402.8	201.1	3.66	2.33
2.89	YES						
L0041858	0	0.68070E-07	444888.1	3760402.7	201.1	3.66	2.33
2.89	YES						
L0041859	0	0.68070E-07	444893.1	3760402.6	201.1	3.66	2.33
2.89	YES						
L0041860	0	0.68070E-07	444898.1	3760402.5	201.1	3.66	2.33
2.89	YES						
L0041861	0	0.68070E-07	444903.1	3760402.4	201.1	3.66	2.33
2.89	YES						
L0041862	0	0.68070E-07	444908.1	3760402.4	201.2	3.66	2.33
2.89	YES						
L0041863	0	0.68070E-07	444913.1	3760402.3	201.2	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)

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(METERS)

BY

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L0041864	0	0.68070E-07	444918.1	3760402.2	201.2	3.66	2.33
2.89 YES							
L0041865	0	0.68070E-07	444923.1	3760402.1	201.3	3.66	2.33
2.89 YES							
L0041866	0	0.68070E-07	444928.1	3760402.0	201.3	3.66	2.33
2.89 YES							
L0041867	0	0.68070E-07	444933.1	3760401.9	201.4	3.66	2.33
2.89 YES							
L0041868	0	0.68070E-07	444938.1	3760401.8	201.4	3.66	2.33
2.89 YES							
L0041869	0	0.68070E-07	444943.1	3760401.8	201.5	3.66	2.33
2.89 YES							
L0041870	0	0.68070E-07	444948.1	3760401.7	201.5	3.66	2.33
2.89 YES							
L0041871	0	0.68070E-07	444953.1	3760401.6	201.5	3.66	2.33
2.89 YES							
L0041872	0	0.68070E-07	444958.1	3760401.5	201.6	3.66	2.33
2.89 YES							
L0041873	0	0.68070E-07	444963.1	3760401.4	201.6	3.66	2.33
2.89 YES							
L0041874	0	0.68070E-07	444968.1	3760401.3	201.6	3.66	2.33
2.89 YES							
L0041875	0	0.68070E-07	444973.1	3760401.2	201.6	3.66	2.33
2.89 YES							
L0041876	0	0.68070E-07	444978.1	3760401.2	201.7	3.66	2.33
2.89 YES							
L0041877	0	0.68070E-07	444983.1	3760401.1	201.7	3.66	2.33
2.89 YES							
L0041878	0	0.68070E-07	444988.1	3760401.0	201.7	3.66	2.33
2.89 YES							
L0041879	0	0.68070E-07	444993.1	3760400.9	201.7	3.66	2.33
2.89 YES							
L0041880	0	0.68070E-07	444998.1	3760400.8	201.7	3.66	2.33
2.89 YES							
L0041881	0	0.68070E-07	445003.1	3760400.7	201.7	3.66	2.33
2.89 YES							
L0041882	0	0.68070E-07	445008.1	3760400.6	201.7	3.66	2.33
2.89 YES							
L0041883	0	0.68070E-07	445013.1	3760400.6	201.7	3.66	2.33
2.89 YES							
L0041884	0	0.68070E-07	445018.1	3760400.5	201.7	3.66	2.33
2.89 YES							
L0041885	0	0.68070E-07	445023.0	3760400.4	201.7	3.66	2.33
2.89 YES							

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L0041886	0	0.68070E-07	445028.0	3760400.3	201.7	3.66	2.33
2.89 YES							
L0041887	0	0.68070E-07	445033.0	3760400.2	201.7	3.66	2.33
2.89 YES							
L0041888	0	0.68070E-07	445038.0	3760400.1	201.7	3.66	2.33
2.89 YES							
L0041889	0	0.68070E-07	445043.0	3760400.0	201.7	3.66	2.33
2.89 YES							
L0041890	0	0.68070E-07	445048.0	3760400.0	201.7	3.66	2.33
2.89 YES							
L0041891	0	0.68070E-07	445053.0	3760399.9	201.7	3.66	2.33
2.89 YES							
L0041892	0	0.68070E-07	445058.0	3760399.8	201.7	3.66	2.33
2.89 YES							
L0041893	0	0.68070E-07	445063.0	3760399.7	201.7	3.66	2.33
2.89 YES							
L0041894	0	0.68070E-07	445068.0	3760399.6	201.7	3.66	2.33
2.89 YES							
L0041895	0	0.68070E-07	445073.0	3760399.5	201.6	3.66	2.33
2.89 YES							
L0041896	0	0.68070E-07	445078.0	3760399.4	201.6	3.66	2.33
2.89 YES							
L0041897	0	0.68070E-07	445083.0	3760399.4	201.6	3.66	2.33
2.89 YES							
L0041898	0	0.68070E-07	445088.0	3760399.3	201.6	3.66	2.33
2.89 YES							
L0041899	0	0.68070E-07	445093.0	3760399.2	201.6	3.66	2.33
2.89 YES							
L0041900	0	0.68070E-07	445098.0	3760399.1	201.6	3.66	2.33
2.89 YES							
L0041901	0	0.68070E-07	445103.0	3760399.0	201.6	3.66	2.33
2.89 YES							
L0041902	0	0.68070E-07	445108.0	3760398.9	201.6	3.66	2.33
2.89 YES							
L0041903	0	0.68070E-07	445113.0	3760398.8	201.6	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER      EMISSION RATE      BASE      RELEASE      INIT.

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INIT.	URBAN	EMISSION RATE						
SOURCE		PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	
SZ	SOURCE	SCALAR VARY						
ID		CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						
L0041904		0	0.68070E-07	445118.0	3760398.8	201.7	3.66	2.33
2.89	YES							
L0041905		0	0.68070E-07	445123.0	3760398.7	201.7	3.66	2.33
2.89	YES							
L0041906		0	0.68070E-07	445128.0	3760398.6	201.8	3.66	2.33
2.89	YES							
L0041907		0	0.68070E-07	445133.0	3760398.5	201.8	3.66	2.33
2.89	YES							
L0041908		0	0.68070E-07	445138.0	3760398.4	201.8	3.66	2.33
2.89	YES							
L0041909		0	0.68070E-07	445143.0	3760398.3	201.8	3.66	2.33
2.89	YES							
L0041910		0	0.68070E-07	445148.0	3760398.2	201.7	3.66	2.33
2.89	YES							
L0041911		0	0.68070E-07	445153.0	3760398.3	201.7	3.66	2.33
2.89	YES							
L0041912		0	0.68070E-07	445158.0	3760398.5	201.7	3.66	2.33
2.89	YES							
L0041913		0	0.68070E-07	445163.0	3760398.7	201.6	3.66	2.33
2.89	YES							
L0041914		0	0.68070E-07	445168.0	3760398.9	201.6	3.66	2.33
2.89	YES							
L0041915		0	0.68070E-07	445173.0	3760399.1	201.5	3.66	2.33
2.89	YES							
L0041916		0	0.68070E-07	445178.0	3760399.3	201.5	3.66	2.33
2.89	YES							
L0041917		0	0.68070E-07	445183.0	3760399.5	201.4	3.66	2.33
2.89	YES							
L0041918		0	0.68070E-07	445188.0	3760399.7	201.4	3.66	2.33
2.89	YES							
L0041919		0	0.68070E-07	445193.0	3760399.9	201.4	3.66	2.33
2.89	YES							
L0041920		0	0.55350E-07	440779.6	3760467.0	196.6	3.66	2.33
2.89	YES							
L0041921		0	0.55350E-07	440784.6	3760467.0	196.7	3.66	2.33
2.89	YES							
L0041922		0	0.55350E-07	440789.6	3760467.0	196.7	3.66	2.33
2.89	YES							
L0041923		0	0.55350E-07	440794.6	3760466.9	196.7	3.66	2.33
2.89	YES							

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L0041924	0	0.55350E-07	440799.6	3760466.9	196.7	3.66	2.33
2.89	YES						
L0041925	0	0.55350E-07	440804.6	3760466.9	196.7	3.66	2.33
2.89	YES						
L0041926	0	0.55350E-07	440809.6	3760466.8	196.7	3.66	2.33
2.89	YES						
L0041927	0	0.55350E-07	440814.6	3760466.8	196.7	3.66	2.33
2.89	YES						
L0041928	0	0.55350E-07	440819.6	3760466.8	196.6	3.66	2.33
2.89	YES						
L0041929	0	0.55350E-07	440824.6	3760466.7	196.7	3.66	2.33
2.89	YES						
L0041930	0	0.55350E-07	440829.6	3760466.7	196.7	3.66	2.33
2.89	YES						
L0041931	0	0.55350E-07	440834.6	3760466.7	196.7	3.66	2.33
2.89	YES						
L0041932	0	0.55350E-07	440839.6	3760466.6	196.7	3.66	2.33
2.89	YES						
L0041933	0	0.55350E-07	440844.6	3760466.6	196.8	3.66	2.33
2.89	YES						
L0041934	0	0.55350E-07	440849.6	3760466.6	196.8	3.66	2.33
2.89	YES						
L0041935	0	0.55350E-07	440854.6	3760466.5	196.8	3.66	2.33
2.89	YES						
L0041936	0	0.55350E-07	440859.6	3760466.5	196.9	3.66	2.33
2.89	YES						
L0041937	0	0.55350E-07	440864.6	3760466.5	196.9	3.66	2.33
2.89	YES						
L0041938	0	0.55350E-07	440869.6	3760466.4	197.0	3.66	2.33
2.89	YES						
L0041939	0	0.55350E-07	440874.6	3760466.4	197.0	3.66	2.33
2.89	YES						
L0041940	0	0.55350E-07	440879.6	3760466.4	197.1	3.66	2.33
2.89	YES						
L0041941	0	0.55350E-07	440884.6	3760466.3	197.1	3.66	2.33
2.89	YES						
L0041942	0	0.55350E-07	440889.6	3760466.3	197.2	3.66	2.33
2.89	YES						
L0041943	0	0.55350E-07	440894.6	3760466.3	197.2	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*



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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY						
L0041944	0	0.55350E-07	440899.6	3760466.2	197.2	3.66	2.33	
2.89	YES							
L0041945	0	0.55350E-07	440904.6	3760466.2	197.3	3.66	2.33	
2.89	YES							
L0041946	0	0.55350E-07	440909.6	3760466.2	197.4	3.66	2.33	
2.89	YES							
L0041947	0	0.55350E-07	440914.6	3760466.1	197.4	3.66	2.33	
2.89	YES							
L0041948	0	0.55350E-07	440919.6	3760466.1	197.4	3.66	2.33	
2.89	YES							
L0041949	0	0.55350E-07	440924.6	3760466.1	197.5	3.66	2.33	
2.89	YES							
L0041950	0	0.55350E-07	440929.6	3760466.0	197.5	3.66	2.33	
2.89	YES							
L0041951	0	0.55350E-07	440934.6	3760466.0	197.5	3.66	2.33	
2.89	YES							
L0041952	0	0.55350E-07	440939.6	3760466.0	197.5	3.66	2.33	
2.89	YES							
L0041953	0	0.55350E-07	440944.6	3760465.9	197.6	3.66	2.33	
2.89	YES							
L0041954	0	0.55350E-07	440949.6	3760465.9	197.6	3.66	2.33	
2.89	YES							
L0041955	0	0.55350E-07	440954.6	3760465.9	197.6	3.66	2.33	
2.89	YES							
L0041956	0	0.55350E-07	440959.6	3760465.8	197.6	3.66	2.33	
2.89	YES							
L0041957	0	0.55350E-07	440964.6	3760465.8	197.6	3.66	2.33	
2.89	YES							
L0041958	0	0.55350E-07	440969.6	3760465.8	197.6	3.66	2.33	
2.89	YES							
L0041959	0	0.55350E-07	440974.6	3760465.7	197.6	3.66	2.33	
2.89	YES							
L0041960	0	0.55350E-07	440979.6	3760465.7	197.6	3.66	2.33	
2.89	YES							
L0041961	0	0.55350E-07	440984.6	3760465.7	197.7	3.66	2.33	
2.89	YES							

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L0041962	0	0.55350E-07	440989.6	3760465.6	197.7	3.66	2.33
2.89	YES						
L0041963	0	0.46500E-07	440994.5	3760465.5	197.7	3.66	2.33
2.89	YES						
L0041964	0	0.46500E-07	440999.5	3760465.5	197.7	3.66	2.33
2.89	YES						
L0041965	0	0.46500E-07	441004.5	3760465.6	197.8	3.66	2.33
2.89	YES						
L0041966	0	0.46500E-07	441009.5	3760465.6	197.8	3.66	2.33
2.89	YES						
L0041967	0	0.46500E-07	441014.5	3760465.6	197.8	3.66	2.33
2.89	YES						
L0041968	0	0.46500E-07	441019.5	3760465.6	197.9	3.66	2.33
2.89	YES						
L0041969	0	0.46500E-07	441024.5	3760465.6	197.9	3.66	2.33
2.89	YES						
L0041970	0	0.46500E-07	441029.5	3760465.7	197.9	3.66	2.33
2.89	YES						
L0041971	0	0.46500E-07	441034.5	3760465.7	197.9	3.66	2.33
2.89	YES						
L0041972	0	0.46500E-07	441039.5	3760465.7	198.0	3.66	2.33
2.89	YES						
L0041973	0	0.46500E-07	441044.5	3760465.7	198.0	3.66	2.33
2.89	YES						
L0041974	0	0.46500E-07	441049.5	3760465.8	198.0	3.66	2.33
2.89	YES						
L0041975	0	0.46500E-07	441054.5	3760465.8	198.1	3.66	2.33
2.89	YES						
L0041976	0	0.46500E-07	441059.5	3760465.8	198.1	3.66	2.33
2.89	YES						
L0041977	0	0.46500E-07	441064.5	3760465.8	198.1	3.66	2.33
2.89	YES						
L0041978	0	0.46500E-07	441069.5	3760465.8	198.2	3.66	2.33
2.89	YES						
L0041979	0	0.46500E-07	441074.5	3760465.9	198.2	3.66	2.33
2.89	YES						
L0041980	0	0.46500E-07	441079.5	3760465.9	198.3	3.66	2.33
2.89	YES						
L0041981	0	0.46500E-07	441084.5	3760465.9	198.3	3.66	2.33
2.89	YES						
L0041982	0	0.46500E-07	441089.5	3760465.9	198.3	3.66	2.33
2.89	YES						
L0041983	0	0.46500E-07	441094.5	3760465.9	198.4	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0041984		0	0.46500E-07	441099.5	3760466.0	198.4	3.66	2.33
2.89	YES							
L0041985		0	0.46500E-07	441104.5	3760466.0	198.4	3.66	2.33
2.89	YES							
L0041986		0	0.46500E-07	441109.5	3760466.0	198.5	3.66	2.33
2.89	YES							
L0041987		0	0.46500E-07	441114.5	3760466.0	198.5	3.66	2.33
2.89	YES							
L0041988		0	0.46500E-07	441119.5	3760466.0	198.5	3.66	2.33
2.89	YES							
L0041989		0	0.46500E-07	441124.5	3760466.1	198.5	3.66	2.33
2.89	YES							
L0041990		0	0.46500E-07	441129.5	3760466.1	198.5	3.66	2.33
2.89	YES							
L0041991		0	0.46500E-07	441134.5	3760466.1	198.5	3.66	2.33
2.89	YES							
L0041992		0	0.46500E-07	441139.5	3760466.1	198.5	3.66	2.33
2.89	YES							
L0041993		0	0.46500E-07	441144.5	3760466.1	198.5	3.66	2.33
2.89	YES							
L0041994		0	0.46500E-07	441149.5	3760466.2	198.5	3.66	2.33
2.89	YES							
L0041995		0	0.46500E-07	441154.5	3760466.2	198.6	3.66	2.33
2.89	YES							
L0041996		0	0.46500E-07	441159.5	3760466.2	198.6	3.66	2.33
2.89	YES							
L0041997		0	0.46500E-07	441164.5	3760466.2	198.6	3.66	2.33
2.89	YES							
L0041998		0	0.46500E-07	441169.5	3760466.3	198.5	3.66	2.33
2.89	YES							
L0041999		0	0.46500E-07	441174.5	3760466.3	198.5	3.66	2.33
2.89	YES							

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L0042000	0	0.46500E-07	441179.5	3760466.3	198.5	3.66	2.33
2.89	YES						
L0042001	0	0.46500E-07	441184.5	3760466.3	198.6	3.66	2.33
2.89	YES						
L0042002	0	0.46500E-07	441189.5	3760466.3	198.7	3.66	2.33
2.89	YES						
L0042003	0	0.44720E-07	441192.1	3760466.2	198.8	3.66	2.33
2.89	YES						
L0042004	0	0.44720E-07	441197.1	3760466.3	198.9	3.66	2.33
2.89	YES						
L0042005	0	0.44720E-07	441202.1	3760466.3	199.0	3.66	2.33
2.89	YES						
L0042006	0	0.44720E-07	441207.1	3760466.3	199.0	3.66	2.33
2.89	YES						
L0042007	0	0.44720E-07	441212.1	3760466.3	198.9	3.66	2.33
2.89	YES						
L0042008	0	0.44720E-07	441217.1	3760466.4	198.9	3.66	2.33
2.89	YES						
L0042009	0	0.44720E-07	441222.1	3760466.4	198.8	3.66	2.33
2.89	YES						
L0042010	0	0.44720E-07	441227.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042011	0	0.44720E-07	441232.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042012	0	0.44720E-07	441237.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042013	0	0.44720E-07	441242.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042014	0	0.44720E-07	441247.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042015	0	0.44720E-07	441252.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042016	0	0.44720E-07	441257.1	3760466.4	198.6	3.66	2.33
2.89	YES						
L0042017	0	0.44720E-07	441262.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042018	0	0.44720E-07	441267.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042019	0	0.44720E-07	441272.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042020	0	0.44720E-07	441277.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042021	0	0.44720E-07	441282.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042022	0	0.44720E-07	441287.1	3760466.4	198.7	3.66	2.33
2.89	YES						
L0042023	0	0.44720E-07	441292.1	3760466.4	198.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0042024		0	0.44720E-07	441297.1	3760466.4	198.8	3.66	2.33
2.89	YES							
L0042025		0	0.44720E-07	441302.1	3760466.4	198.8	3.66	2.33
2.89	YES							
L0042026		0	0.44720E-07	441307.1	3760466.4	198.8	3.66	2.33
2.89	YES							
L0042027		0	0.44720E-07	441312.1	3760466.4	198.8	3.66	2.33
2.89	YES							
L0042028		0	0.44720E-07	441317.1	3760466.4	198.8	3.66	2.33
2.89	YES							
L0042029		0	0.44720E-07	441322.1	3760466.4	198.9	3.66	2.33
2.89	YES							
L0042030		0	0.44720E-07	441327.1	3760466.4	198.9	3.66	2.33
2.89	YES							
L0042031		0	0.44720E-07	441332.1	3760466.4	198.9	3.66	2.33
2.89	YES							
L0042032		0	0.44720E-07	441337.1	3760466.4	198.9	3.66	2.33
2.89	YES							
L0042033		0	0.44720E-07	441342.1	3760466.4	198.9	3.66	2.33
2.89	YES							
L0042034		0	0.44720E-07	441347.1	3760466.4	199.0	3.66	2.33
2.89	YES							
L0042035		0	0.44720E-07	441352.1	3760466.4	199.0	3.66	2.33
2.89	YES							
L0042036		0	0.44720E-07	441357.1	3760466.4	199.0	3.66	2.33
2.89	YES							
L0042037		0	0.44720E-07	441362.1	3760466.4	199.0	3.66	2.33
2.89	YES							

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L0042038	0	0.44720E-07	441367.1	3760466.4	199.1	3.66	2.33
2.89	YES						
L0042039	0	0.44720E-07	441372.1	3760466.4	199.1	3.66	2.33
2.89	YES						
L0042040	0	0.44720E-07	441377.1	3760466.4	199.1	3.66	2.33
2.89	YES						
L0042041	0	0.44720E-07	441382.1	3760466.4	199.1	3.66	2.33
2.89	YES						
L0042042	0	0.44720E-07	441387.1	3760466.4	199.2	3.66	2.33
2.89	YES						
L0042043	0	0.44720E-07	441392.1	3760466.4	199.2	3.66	2.33
2.89	YES						
L0042044	0	0.44720E-07	441397.1	3760466.4	199.2	3.66	2.33
2.89	YES						
L0042045	0	0.44720E-07	441402.1	3760466.4	199.2	3.66	2.33
2.89	YES						
L0042046	0	0.44720E-07	441407.1	3760466.4	199.2	3.66	2.33
2.89	YES						
L0042047	0	0.44720E-07	441412.1	3760466.4	199.3	3.66	2.33
2.89	YES						
L0042048	0	0.44720E-07	441417.1	3760466.4	199.3	3.66	2.33
2.89	YES						
L0042049	0	0.44720E-07	441422.1	3760466.4	199.3	3.66	2.33
2.89	YES						
L0042050	0	0.44720E-07	441427.1	3760466.4	199.3	3.66	2.33
2.89	YES						
L0042051	0	0.44720E-07	441432.1	3760466.4	199.3	3.66	2.33
2.89	YES						
L0042052	0	0.44720E-07	441437.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042053	0	0.44720E-07	441442.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042054	0	0.44720E-07	441447.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042055	0	0.44720E-07	441452.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042056	0	0.44720E-07	441457.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042057	0	0.44720E-07	441462.1	3760466.3	199.3	3.66	2.33
2.89	YES						
L0042058	0	0.44720E-07	441467.1	3760466.3	199.4	3.66	2.33
2.89	YES						
L0042059	0	0.44720E-07	441472.1	3760466.3	199.5	3.66	2.33
2.89	YES						
L0042060	0	0.44720E-07	441477.1	3760466.3	199.5	3.66	2.33
2.89	YES						
L0042061	0	0.44720E-07	441482.1	3760466.3	199.6	3.66	2.33
2.89	YES						

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L0042062            0    0.44720E-07   441487.1 3760466.3   199.6        3.66        2.33  
 2.89    YES  
 L0042063            0    0.44720E-07   441492.1 3760466.3   199.7        3.66        2.33  
 2.89    YES

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\*\*\* MODELOPTs:    RegDFault   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0042064	0	0.44720E-07	441497.1	3760466.3	199.7	3.66	2.33
2.89	YES						
L0042065	0	0.44720E-07	441502.1	3760466.3	199.7	3.66	2.33
2.89	YES						
L0042066	0	0.44720E-07	441507.1	3760466.3	199.8	3.66	2.33
2.89	YES						
L0042067	0	0.44720E-07	441512.1	3760466.3	199.8	3.66	2.33
2.89	YES						
L0042068	0	0.44720E-07	441517.1	3760466.3	199.8	3.66	2.33
2.89	YES						
L0042069	0	0.44720E-07	441522.1	3760466.3	199.8	3.66	2.33
2.89	YES						
L0042070	0	0.44720E-07	441527.1	3760466.3	199.8	3.66	2.33
2.89	YES						
L0042071	0	0.44720E-07	441532.1	3760466.3	199.9	3.66	2.33
2.89	YES						
L0042072	0	0.44720E-07	441537.1	3760466.3	199.9	3.66	2.33
2.89	YES						
L0042073	0	0.44720E-07	441542.1	3760466.3	199.9	3.66	2.33
2.89	YES						
L0042074	0	0.44720E-07	441547.1	3760466.3	199.9	3.66	2.33
2.89	YES						
L0042075	0	0.34750E-07	441551.6	3760466.4	199.9	3.66	2.33
2.89	YES						

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L0042076	0	0.34750E-07	441556.6	3760466.4	199.9	3.66	2.33
2.89	YES						
L0042077	0	0.34750E-07	441561.6	3760466.4	199.9	3.66	2.33
2.89	YES						
L0042078	0	0.34750E-07	441566.6	3760466.4	199.9	3.66	2.33
2.89	YES						
L0042079	0	0.34750E-07	441571.6	3760466.5	200.0	3.66	2.33
2.89	YES						
L0042080	0	0.34750E-07	441576.6	3760466.5	200.0	3.66	2.33
2.89	YES						
L0042081	0	0.34750E-07	441581.6	3760466.5	200.0	3.66	2.33
2.89	YES						
L0042082	0	0.34750E-07	441586.6	3760466.5	200.0	3.66	2.33
2.89	YES						
L0042083	0	0.34750E-07	441591.6	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042084	0	0.34750E-07	441596.6	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042085	0	0.34750E-07	441601.6	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042086	0	0.34750E-07	441606.6	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042087	0	0.34750E-07	441611.6	3760466.7	200.0	3.66	2.33
2.89	YES						
L0042088	0	0.34750E-07	441616.6	3760466.7	200.1	3.66	2.33
2.89	YES						
L0042089	0	0.34750E-07	441621.6	3760466.7	200.1	3.66	2.33
2.89	YES						
L0042090	0	0.34750E-07	441626.6	3760466.7	200.1	3.66	2.33
2.89	YES						
L0042091	0	0.34750E-07	441631.6	3760466.8	200.1	3.66	2.33
2.89	YES						
L0042092	0	0.34750E-07	441636.6	3760466.8	200.1	3.66	2.33
2.89	YES						
L0042093	0	0.34750E-07	441641.6	3760466.8	200.2	3.66	2.33
2.89	YES						
L0042094	0	0.34750E-07	441646.6	3760466.8	200.2	3.66	2.33
2.89	YES						
L0042095	0	0.34750E-07	441651.6	3760466.8	200.1	3.66	2.33
2.89	YES						
L0042096	0	0.34750E-07	441656.6	3760466.9	200.1	3.66	2.33
2.89	YES						
L0042097	0	0.34750E-07	441661.6	3760466.9	200.1	3.66	2.33
2.89	YES						
L0042098	0	0.34750E-07	441666.6	3760466.9	200.1	3.66	2.33
2.89	YES						
L0042099	0	0.34750E-07	441671.6	3760466.9	200.1	3.66	2.33
2.89	YES						



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L0042100	0	0.34750E-07	441676.6	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042101	0	0.34750E-07	441681.6	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042102	0	0.34750E-07	441686.6	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042103	0	0.34750E-07	441691.6	3760467.0	200.1	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0042104	0	0.34750E-07	441696.6	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042105	0	0.34750E-07	441701.6	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042106	0	0.34750E-07	441706.6	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042107	0	0.34750E-07	441711.6	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042108	0	0.34750E-07	441716.6	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042109	0	0.34750E-07	441721.6	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042110	0	0.34750E-07	441726.6	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042111	0	0.34750E-07	441731.6	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042112	0	0.34750E-07	441736.6	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042113	0	0.34750E-07	441741.6	3760467.3	200.1	3.66	2.33
2.89	YES						

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L0042114	0	0.34750E-07	441746.6	3760467.3	200.0	3.66	2.33
2.89	YES						
L0042115	0	0.23200E-07	441750.4	3760467.6	200.0	3.66	2.33
2.89	YES						
L0042116	0	0.23200E-07	441755.4	3760467.6	200.0	3.66	2.33
2.89	YES						
L0042117	0	0.23200E-07	441760.4	3760467.5	200.0	3.66	2.33
2.89	YES						
L0042118	0	0.23200E-07	441765.4	3760467.5	200.0	3.66	2.33
2.89	YES						
L0042119	0	0.23200E-07	441770.4	3760467.5	200.0	3.66	2.33
2.89	YES						
L0042120	0	0.23200E-07	441775.4	3760467.5	200.1	3.66	2.33
2.89	YES						
L0042121	0	0.23200E-07	441780.4	3760467.5	200.1	3.66	2.33
2.89	YES						
L0042122	0	0.23200E-07	441785.4	3760467.4	200.1	3.66	2.33
2.89	YES						
L0042123	0	0.23200E-07	441790.4	3760467.4	200.1	3.66	2.33
2.89	YES						
L0042124	0	0.23200E-07	441795.4	3760467.4	200.1	3.66	2.33
2.89	YES						
L0042125	0	0.23200E-07	441800.4	3760467.4	200.1	3.66	2.33
2.89	YES						
L0042126	0	0.23200E-07	441805.4	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042127	0	0.23200E-07	441810.4	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042128	0	0.23200E-07	441815.4	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042129	0	0.23200E-07	441820.4	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042130	0	0.23200E-07	441825.4	3760467.3	200.1	3.66	2.33
2.89	YES						
L0042131	0	0.23200E-07	441830.4	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042132	0	0.23200E-07	441835.4	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042133	0	0.23200E-07	441840.4	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042134	0	0.23200E-07	441845.4	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042135	0	0.23200E-07	441850.4	3760467.2	200.1	3.66	2.33
2.89	YES						
L0042136	0	0.23200E-07	441855.4	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042137	0	0.23200E-07	441860.4	3760467.1	200.1	3.66	2.33
2.89	YES						

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L0042138	0	0.23200E-07	441865.4	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042139	0	0.23200E-07	441870.4	3760467.1	200.1	3.66	2.33
2.89	YES						
L0042140	0	0.23200E-07	441875.4	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042141	0	0.23200E-07	441880.4	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042142	0	0.23200E-07	441885.4	3760467.0	200.1	3.66	2.33
2.89	YES						
L0042143	0	0.23200E-07	441890.4	3760467.0	200.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0042144	0	0.23200E-07	441895.4	3760467.0	200.1	3.66	2.33	
2.89	YES							
L0042145	0	0.23200E-07	441900.4	3760466.9	200.1	3.66	2.33	
2.89	YES							
L0042146	0	0.23200E-07	441905.4	3760466.9	200.2	3.66	2.33	
2.89	YES							
L0042147	0	0.23200E-07	441910.4	3760466.9	200.2	3.66	2.33	
2.89	YES							
L0042148	0	0.23200E-07	441915.4	3760466.9	200.2	3.66	2.33	
2.89	YES							
L0042149	0	0.23200E-07	441920.4	3760466.8	200.2	3.66	2.33	
2.89	YES							
L0042150	0	0.23200E-07	441925.4	3760466.8	200.2	3.66	2.33	
2.89	YES							
L0042151	0	0.23200E-07	441930.4	3760466.8	200.2	3.66	2.33	
2.89	YES							

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L0042152	0	0.23200E-07	441935.4	3760466.8	200.2	3.66	2.33
2.89	YES						
L0042153	0	0.23200E-07	441940.4	3760466.8	200.2	3.66	2.33
2.89	YES						
L0042154	0	0.23200E-07	441945.4	3760466.7	200.2	3.66	2.33
2.89	YES						
L0042155	0	0.23200E-07	441950.4	3760466.7	200.2	3.66	2.33
2.89	YES						
L0042156	0	0.23200E-07	441955.4	3760466.7	200.2	3.66	2.33
2.89	YES						
L0042157	0	0.23200E-07	441960.4	3760466.7	200.2	3.66	2.33
2.89	YES						
L0042158	0	0.23200E-07	441965.4	3760466.6	200.1	3.66	2.33
2.89	YES						
L0042159	0	0.23200E-07	441970.4	3760466.6	200.1	3.66	2.33
2.89	YES						
L0042160	0	0.23200E-07	441975.4	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042161	0	0.23200E-07	441980.4	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042162	0	0.23200E-07	441985.4	3760466.6	200.0	3.66	2.33
2.89	YES						
L0042163	0	0.23200E-07	441990.4	3760466.5	199.9	3.66	2.33
2.89	YES						
L0042164	0	0.23200E-07	441995.4	3760466.5	199.9	3.66	2.33
2.89	YES						
L0042165	0	0.12040E-06	441189.8	3760472.8	198.9	3.66	2.33
2.89	YES						
L0042166	0	0.12040E-06	441189.8	3760477.8	198.9	3.66	2.33
2.89	YES						
L0042167	0	0.12040E-06	441189.8	3760482.8	199.0	3.66	2.33
2.89	YES						
L0042168	0	0.12040E-06	441189.8	3760487.8	199.0	3.66	2.33
2.89	YES						
L0042169	0	0.12040E-06	441189.8	3760492.8	199.1	3.66	2.33
2.89	YES						
L0042170	0	0.12040E-06	441189.8	3760497.8	199.1	3.66	2.33
2.89	YES						
L0042171	0	0.12040E-06	441189.8	3760502.8	199.2	3.66	2.33
2.89	YES						
L0042172	0	0.12040E-06	441189.8	3760507.8	199.2	3.66	2.33
2.89	YES						
L0042173	0	0.12040E-06	441189.8	3760512.8	199.3	3.66	2.33
2.89	YES						
L0042174	0	0.12040E-06	441189.8	3760517.8	199.4	3.66	2.33
2.89	YES						
L0042175	0	0.12040E-06	441189.8	3760522.8	199.4	3.66	2.33
2.89	YES						

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L0042176	0	0.12040E-06	441189.8	3760527.8	199.5	3.66	2.33
2.89	YES						
L0042177	0	0.12040E-06	441189.8	3760532.8	199.6	3.66	2.33
2.89	YES						
L0042178	0	0.12040E-06	441189.8	3760537.8	199.6	3.66	2.33
2.89	YES						
L0042179	0	0.12040E-06	441189.8	3760542.8	199.7	3.66	2.33
2.89	YES						
L0042180	0	0.12040E-06	441189.8	3760547.8	199.7	3.66	2.33
2.89	YES						
L0042181	0	0.12040E-06	441189.9	3760552.8	199.7	3.66	2.33
2.89	YES						
L0042182	0	0.12040E-06	441189.9	3760557.8	199.8	3.66	2.33
2.89	YES						
L0042183	0	0.12040E-06	441189.9	3760562.8	199.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY						

L0042184	0	0.12040E-06	441189.9	3760567.8	199.8	3.66	2.33
2.89	YES						
L0042185	0	0.12040E-06	441189.9	3760572.8	199.9	3.66	2.33
2.89	YES						
L0042186	0	0.12040E-06	441189.9	3760577.8	199.9	3.66	2.33
2.89	YES						
L0042187	0	0.12040E-06	441189.9	3760582.8	199.9	3.66	2.33
2.89	YES						
L0042188	0	0.12040E-06	441190.0	3760587.8	200.0	3.66	2.33
2.89	YES						
L0042189	0	0.12040E-06	441190.0	3760592.8	200.0	3.66	2.33
2.89	YES						

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L0042190	0	0.12040E-06	441190.0	3760597.8	200.1	3.66	2.33
2.89	YES						
L0042191	0	0.12040E-06	441190.0	3760602.8	200.1	3.66	2.33
2.89	YES						
L0042192	0	0.12040E-06	441190.0	3760607.8	200.1	3.66	2.33
2.89	YES						
L0042193	0	0.12040E-06	441190.0	3760612.8	200.2	3.66	2.33
2.89	YES						
L0042194	0	0.12040E-06	441190.0	3760617.8	200.2	3.66	2.33
2.89	YES						
L0042195	0	0.12040E-06	441190.1	3760622.8	200.2	3.66	2.33
2.89	YES						
L0042196	0	0.12040E-06	441190.1	3760627.8	200.3	3.66	2.33
2.89	YES						
L0042197	0	0.12040E-06	441190.1	3760632.8	200.3	3.66	2.33
2.89	YES						
L0042198	0	0.12040E-06	441190.1	3760637.8	200.3	3.66	2.33
2.89	YES						
L0042199	0	0.12040E-06	441190.1	3760642.8	200.4	3.66	2.33
2.89	YES						
L0042200	0	0.12040E-06	441190.1	3760647.8	200.4	3.66	2.33
2.89	YES						
L0042201	0	0.12040E-06	441190.1	3760652.8	200.4	3.66	2.33
2.89	YES						
L0042202	0	0.12040E-06	441190.2	3760657.8	200.4	3.66	2.33
2.89	YES						
L0042203	0	0.12040E-06	441190.2	3760662.8	200.5	3.66	2.33
2.89	YES						
L0042204	0	0.12040E-06	441190.2	3760667.8	200.5	3.66	2.33
2.89	YES						
L0042205	0	0.12040E-06	441190.2	3760672.8	200.5	3.66	2.33
2.89	YES						
L0042206	0	0.12040E-06	441190.2	3760677.8	200.5	3.66	2.33
2.89	YES						
L0042207	0	0.12040E-06	441190.2	3760682.8	200.6	3.66	2.33
2.89	YES						
L0042208	0	0.12040E-06	441190.2	3760687.8	200.6	3.66	2.33
2.89	YES						
L0042209	0	0.12040E-06	441190.3	3760692.8	200.6	3.66	2.33
2.89	YES						
L0042210	0	0.12040E-06	441190.3	3760697.8	200.7	3.66	2.33
2.89	YES						
L0042211	0	0.12040E-06	441190.3	3760702.8	200.7	3.66	2.33
2.89	YES						
L0042212	0	0.12040E-06	441190.3	3760707.8	200.7	3.66	2.33
2.89	YES						
L0042213	0	0.12040E-06	441190.3	3760712.8	200.7	3.66	2.33
2.89	YES						

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L0042214	0	0.12040E-06	441190.3	3760717.8	200.8	3.66	2.33
2.89	YES						
L0042215	0	0.12040E-06	441190.3	3760722.8	200.8	3.66	2.33
2.89	YES						
L0042216	0	0.12040E-06	441190.4	3760727.8	200.8	3.66	2.33
2.89	YES						
L0042217	0	0.12040E-06	441190.4	3760732.8	200.8	3.66	2.33
2.89	YES						
L0042218	0	0.12040E-06	441190.4	3760737.8	200.9	3.66	2.33
2.89	YES						
L0042219	0	0.12040E-06	441190.4	3760742.8	200.9	3.66	2.33
2.89	YES						
L0042220	0	0.12040E-06	441190.4	3760747.8	200.9	3.66	2.33
2.89	YES						
L0042221	0	0.12040E-06	441190.4	3760752.8	200.9	3.66	2.33
2.89	YES						
L0042222	0	0.12040E-06	441190.5	3760757.8	201.0	3.66	2.33
2.89	YES						
L0042223	0	0.12040E-06	441190.5	3760762.8	201.0	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)							

L0042224	0	0.12040E-06	441190.5	3760767.8	201.0	3.66	2.33
2.89	YES						
L0042225	0	0.12040E-06	441190.5	3760772.8	201.0	3.66	2.33
2.89	YES						
L0042226	0	0.12040E-06	441190.5	3760777.8	201.1	3.66	2.33
2.89	YES						
L0042227	0	0.12040E-06	441190.5	3760782.8	201.1	3.66	2.33
2.89	YES						

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L0042228	0	0.12040E-06	441190.5	3760787.8	201.1	3.66	2.33
2.89	YES						
L0042229	0	0.12040E-06	441190.6	3760792.8	201.1	3.66	2.33
2.89	YES						
L0042230	0	0.12040E-06	441190.6	3760797.8	201.1	3.66	2.33
2.89	YES						
L0042231	0	0.12040E-06	441190.6	3760802.8	201.2	3.66	2.33
2.89	YES						
L0042232	0	0.12040E-06	441190.6	3760807.8	201.2	3.66	2.33
2.89	YES						
L0042233	0	0.12040E-06	441190.6	3760812.8	201.2	3.66	2.33
2.89	YES						
L0042234	0	0.12040E-06	441190.6	3760817.8	201.2	3.66	2.33
2.89	YES						
L0042235	0	0.12040E-06	441190.6	3760822.8	201.2	3.66	2.33
2.89	YES						
L0042236	0	0.12040E-06	441190.7	3760827.8	201.2	3.66	2.33
2.89	YES						
L0042237	0	0.12040E-06	441190.7	3760832.8	201.3	3.66	2.33
2.89	YES						
L0042238	0	0.12040E-06	441190.7	3760837.8	201.3	3.66	2.33
2.89	YES						
L0042239	0	0.12040E-06	441190.7	3760842.8	201.3	3.66	2.33
2.89	YES						
L0042240	0	0.12040E-06	441190.7	3760847.8	201.3	3.66	2.33
2.89	YES						
L0042241	0	0.12040E-06	441190.7	3760852.8	201.4	3.66	2.33
2.89	YES						
L0042242	0	0.12040E-06	441190.7	3760857.8	201.4	3.66	2.33
2.89	YES						
L0042243	0	0.12040E-06	441190.8	3760862.8	201.4	3.66	2.33
2.89	YES						
L0042244	0	0.12040E-06	441190.8	3760867.8	201.4	3.66	2.33
2.89	YES						
L0042245	0	0.12040E-06	441190.8	3760872.8	201.4	3.66	2.33
2.89	YES						
L0042246	0	0.86670E-07	441190.7	3760875.9	201.4	3.66	2.33
2.89	YES						
L0042247	0	0.86670E-07	441190.7	3760880.9	201.5	3.66	2.33
2.89	YES						
L0042248	0	0.86670E-07	441190.6	3760885.9	201.5	3.66	2.33
2.89	YES						
L0042249	0	0.86670E-07	441190.6	3760890.9	201.5	3.66	2.33
2.89	YES						
L0042250	0	0.86670E-07	441190.6	3760895.9	201.6	3.66	2.33
2.89	YES						
L0042251	0	0.86670E-07	441190.5	3760900.9	201.6	3.66	2.33
2.89	YES						



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L0042252	0	0.86670E-07	441190.5	3760905.9	201.6	3.66	2.33
2.89	YES						
L0042253	0	0.86670E-07	441190.5	3760910.9	201.7	3.66	2.33
2.89	YES						
L0042254	0	0.86670E-07	441190.5	3760915.9	201.7	3.66	2.33
2.89	YES						
L0042255	0	0.86670E-07	441190.4	3760920.9	201.7	3.66	2.33
2.89	YES						
L0042256	0	0.86670E-07	441190.4	3760925.9	201.8	3.66	2.33
2.89	YES						
L0042257	0	0.86670E-07	441190.4	3760930.9	201.8	3.66	2.33
2.89	YES						
L0042258	0	0.86670E-07	441190.3	3760935.9	201.8	3.66	2.33
2.89	YES						
L0042259	0	0.86670E-07	441190.3	3760940.9	201.9	3.66	2.33
2.89	YES						
L0042260	0	0.86670E-07	441190.3	3760945.9	201.9	3.66	2.33
2.89	YES						
L0042261	0	0.86670E-07	441190.2	3760950.9	201.9	3.66	2.33
2.89	YES						
L0042262	0	0.86670E-07	441190.2	3760955.9	202.0	3.66	2.33
2.89	YES						
L0042263	0	0.86670E-07	441190.2	3760960.9	202.0	3.66	2.33
2.89	YES						

^ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0042264	0	0.86670E-07	441190.2	3760965.9	202.0	3.66	2.33
2.89	YES						
L0042265	0	0.86670E-07	441190.1	3760970.9	202.1	3.66	2.33
2.89	YES						

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L0042266	0	0.86670E-07	441190.1	3760975.9	202.1	3.66	2.33
2.89	YES						
L0042267	0	0.86670E-07	441190.1	3760980.9	202.1	3.66	2.33
2.89	YES						
L0042268	0	0.86670E-07	441190.0	3760985.9	202.1	3.66	2.33
2.89	YES						
L0042269	0	0.86670E-07	441190.0	3760990.9	202.2	3.66	2.33
2.89	YES						
L0042270	0	0.86670E-07	441190.0	3760995.9	202.2	3.66	2.33
2.89	YES						
L0042271	0	0.86670E-07	441190.0	3761000.9	202.2	3.66	2.33
2.89	YES						
L0042272	0	0.86670E-07	441189.9	3761005.9	202.3	3.66	2.33
2.89	YES						
L0042273	0	0.86670E-07	441189.9	3761010.9	202.3	3.66	2.33
2.89	YES						
L0042274	0	0.86670E-07	441189.9	3761015.9	202.3	3.66	2.33
2.89	YES						
L0042275	0	0.86670E-07	441189.8	3761020.9	202.4	3.66	2.33
2.89	YES						
L0042276	0	0.86670E-07	441189.8	3761025.9	202.4	3.66	2.33
2.89	YES						
L0042277	0	0.86670E-07	441189.8	3761030.9	202.5	3.66	2.33
2.89	YES						
L0042278	0	0.86670E-07	441189.7	3761035.9	202.5	3.66	2.33
2.89	YES						
L0042279	0	0.86670E-07	441189.7	3761040.9	202.5	3.66	2.33
2.89	YES						
L0042280	0	0.86670E-07	441189.7	3761045.9	202.6	3.66	2.33
2.89	YES						
L0042281	0	0.86670E-07	441189.7	3761050.9	202.6	3.66	2.33
2.89	YES						
L0042282	0	0.86670E-07	441189.6	3761055.9	202.6	3.66	2.33
2.89	YES						
L0042283	0	0.86670E-07	441189.6	3761060.9	202.7	3.66	2.33
2.89	YES						
L0042284	0	0.86670E-07	441189.6	3761065.9	202.7	3.66	2.33
2.89	YES						
L0042285	0	0.86670E-07	441189.5	3761070.9	202.7	3.66	2.33
2.89	YES						
L0042286	0	0.86670E-07	441189.5	3761075.9	202.7	3.66	2.33
2.89	YES						
L0042287	0	0.86670E-07	441189.5	3761080.9	202.7	3.66	2.33
2.89	YES						
L0042288	0	0.86670E-07	441189.5	3761085.9	202.8	3.66	2.33
2.89	YES						
L0042289	0	0.86670E-07	441189.4	3761090.9	202.8	3.66	2.33
2.89	YES						

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L0042290	0	0.86670E-07	441189.4	3761095.9	202.8	3.66	2.33
2.89	YES						
L0042291	0	0.86670E-07	441189.4	3761100.9	202.8	3.66	2.33
2.89	YES						
L0042292	0	0.86670E-07	441189.3	3761105.9	202.9	3.66	2.33
2.89	YES						
L0042293	0	0.86670E-07	441189.3	3761110.9	202.9	3.66	2.33
2.89	YES						
L0042294	0	0.86670E-07	441189.3	3761115.9	202.9	3.66	2.33
2.89	YES						
L0042295	0	0.86670E-07	441189.3	3761120.9	202.9	3.66	2.33
2.89	YES						
L0042296	0	0.86670E-07	441189.2	3761125.9	203.0	3.66	2.33
2.89	YES						
L0042297	0	0.86670E-07	441189.2	3761130.9	203.0	3.66	2.33
2.89	YES						
L0042298	0	0.86670E-07	441189.2	3761135.9	203.0	3.66	2.33
2.89	YES						
L0042299	0	0.86670E-07	441189.1	3761140.9	203.0	3.66	2.33
2.89	YES						
L0042300	0	0.56400E-07	441189.0	3761144.4	203.1	3.66	2.33
2.89	YES						
L0042301	0	0.56400E-07	441189.0	3761149.4	203.1	3.66	2.33
2.89	YES						
L0042302	0	0.56400E-07	441189.0	3761154.4	203.1	3.66	2.33
2.89	YES						
L0042303	0	0.56400E-07	441189.1	3761159.4	203.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

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L0042304	0	0.56400E-07	441189.1	3761164.4	203.2	3.66	2.33
2.89	YES						
L0042305	0	0.56400E-07	441189.1	3761169.4	203.2	3.66	2.33
2.89	YES						
L0042306	0	0.56400E-07	441189.1	3761174.4	203.2	3.66	2.33
2.89	YES						
L0042307	0	0.56400E-07	441189.1	3761179.4	203.2	3.66	2.33
2.89	YES						
L0042308	0	0.56400E-07	441189.1	3761184.4	203.3	3.66	2.33
2.89	YES						
L0042309	0	0.56400E-07	441189.1	3761189.4	203.3	3.66	2.33
2.89	YES						
L0042310	0	0.56400E-07	441189.1	3761194.4	203.4	3.66	2.33
2.89	YES						
L0042311	0	0.56400E-07	441189.1	3761199.4	203.4	3.66	2.33
2.89	YES						
L0042312	0	0.56400E-07	441189.1	3761204.4	203.4	3.66	2.33
2.89	YES						
L0042313	0	0.56400E-07	441189.1	3761209.4	203.5	3.66	2.33
2.89	YES						
L0042314	0	0.56400E-07	441189.1	3761214.4	203.5	3.66	2.33
2.89	YES						
L0042315	0	0.56400E-07	441189.2	3761219.4	203.5	3.66	2.33
2.89	YES						
L0042316	0	0.56400E-07	441189.2	3761224.4	203.6	3.66	2.33
2.89	YES						
L0042317	0	0.56400E-07	441189.2	3761229.4	203.6	3.66	2.33
2.89	YES						
L0042318	0	0.56400E-07	441189.2	3761234.4	203.7	3.66	2.33
2.89	YES						
L0042319	0	0.56400E-07	441189.2	3761239.4	203.7	3.66	2.33
2.89	YES						
L0042320	0	0.56400E-07	441189.2	3761244.4	203.8	3.66	2.33
2.89	YES						
L0042321	0	0.56400E-07	441189.2	3761249.4	203.8	3.66	2.33
2.89	YES						
L0042322	0	0.56400E-07	441189.2	3761254.4	203.9	3.66	2.33
2.89	YES						
L0042323	0	0.56400E-07	441189.2	3761259.4	203.9	3.66	2.33
2.89	YES						
L0042324	0	0.56400E-07	441189.2	3761264.4	204.0	3.66	2.33
2.89	YES						
L0042325	0	0.41950E-07	441995.2	3760472.0	200.0	3.66	2.33
2.89	YES						
L0042326	0	0.41950E-07	441995.1	3760477.0	200.0	3.66	2.33
2.89	YES						
L0042327	0	0.41950E-07	441995.1	3760482.0	200.1	3.66	2.33
2.89	YES						

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L0042328	0	0.41950E-07	441995.0	3760487.0	200.1	3.66	2.33
2.89	YES						
L0042329	0	0.41950E-07	441995.0	3760492.0	200.2	3.66	2.33
2.89	YES						
L0042330	0	0.41950E-07	441995.0	3760497.0	200.2	3.66	2.33
2.89	YES						
L0042331	0	0.41950E-07	441994.9	3760502.0	200.3	3.66	2.33
2.89	YES						
L0042332	0	0.41950E-07	441994.9	3760507.0	200.3	3.66	2.33
2.89	YES						
L0042333	0	0.41950E-07	441994.9	3760512.0	200.4	3.66	2.33
2.89	YES						
L0042334	0	0.41950E-07	441994.8	3760517.0	200.4	3.66	2.33
2.89	YES						
L0042335	0	0.41950E-07	441994.8	3760522.0	200.4	3.66	2.33
2.89	YES						
L0042336	0	0.41950E-07	441994.8	3760527.0	200.5	3.66	2.33
2.89	YES						
L0042337	0	0.41950E-07	441994.8	3760532.0	200.5	3.66	2.33
2.89	YES						
L0042338	0	0.41950E-07	441994.8	3760537.0	200.5	3.66	2.33
2.89	YES						
L0042339	0	0.41950E-07	441994.8	3760542.0	200.6	3.66	2.33
2.89	YES						
L0042340	0	0.41950E-07	441994.8	3760547.0	200.6	3.66	2.33
2.89	YES						
L0042341	0	0.41950E-07	441994.8	3760552.0	200.6	3.66	2.33
2.89	YES						
L0042342	0	0.41950E-07	441994.8	3760557.0	200.6	3.66	2.33
2.89	YES						
L0042343	0	0.41950E-07	441994.9	3760562.0	200.7	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)

SOL\_operations\_rev2.ADO

(METERS)

BY

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L0042344	0	0.41950E-07	441994.9	3760567.0	200.7	3.66	2.33
2.89 YES							
L0042345	0	0.41950E-07	441994.9	3760572.0	200.7	3.66	2.33
2.89 YES							
L0042346	0	0.41950E-07	441994.9	3760577.0	200.7	3.66	2.33
2.89 YES							
L0042347	0	0.41950E-07	441994.9	3760582.0	200.8	3.66	2.33
2.89 YES							
L0042348	0	0.41950E-07	441994.9	3760587.0	200.8	3.66	2.33
2.89 YES							
L0042349	0	0.41950E-07	441994.9	3760592.0	200.8	3.66	2.33
2.89 YES							
L0042350	0	0.41950E-07	441994.9	3760597.0	200.8	3.66	2.33
2.89 YES							
L0042351	0	0.41950E-07	441994.9	3760602.0	200.9	3.66	2.33
2.89 YES							
L0042352	0	0.41950E-07	441994.9	3760607.0	200.9	3.66	2.33
2.89 YES							
L0042353	0	0.41950E-07	441994.9	3760612.0	200.9	3.66	2.33
2.89 YES							
L0042354	0	0.41950E-07	441994.9	3760617.0	201.0	3.66	2.33
2.89 YES							
L0042355	0	0.41950E-07	441994.9	3760622.0	201.0	3.66	2.33
2.89 YES							
L0042356	0	0.41950E-07	441994.9	3760627.0	201.0	3.66	2.33
2.89 YES							
L0042357	0	0.41950E-07	441994.9	3760632.0	201.0	3.66	2.33
2.89 YES							
L0042358	0	0.41950E-07	441994.9	3760637.0	201.1	3.66	2.33
2.89 YES							
L0042359	0	0.41950E-07	441995.0	3760642.0	201.1	3.66	2.33
2.89 YES							
L0042360	0	0.41950E-07	441995.0	3760647.0	201.2	3.66	2.33
2.89 YES							
L0042361	0	0.41950E-07	441995.0	3760652.0	201.2	3.66	2.33
2.89 YES							
L0042362	0	0.41950E-07	441995.0	3760657.0	201.2	3.66	2.33
2.89 YES							
L0042363	0	0.41950E-07	441995.0	3760662.0	201.2	3.66	2.33
2.89 YES							
L0042364	0	0.41950E-07	441995.0	3760667.0	201.3	3.66	2.33
2.89 YES							
L0042365	0	0.41950E-07	441995.0	3760672.0	201.3	3.66	2.33
2.89 YES							

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L0042366	0	0.41950E-07	441995.0	3760677.0	201.4	3.66	2.33
2.89 YES							
L0042367	0	0.41950E-07	441995.0	3760682.0	201.4	3.66	2.33
2.89 YES							
L0042368	0	0.41950E-07	441995.0	3760687.0	201.4	3.66	2.33
2.89 YES							
L0042369	0	0.41950E-07	441995.0	3760692.0	201.5	3.66	2.33
2.89 YES							
L0042370	0	0.41950E-07	441995.0	3760697.0	201.5	3.66	2.33
2.89 YES							
L0042371	0	0.41950E-07	441995.0	3760702.0	201.5	3.66	2.33
2.89 YES							
L0042372	0	0.41950E-07	441995.0	3760707.0	201.6	3.66	2.33
2.89 YES							
L0042373	0	0.41950E-07	441995.0	3760712.0	201.6	3.66	2.33
2.89 YES							
L0042374	0	0.41950E-07	441995.0	3760717.0	201.6	3.66	2.33
2.89 YES							
L0042375	0	0.41950E-07	441995.1	3760722.0	201.7	3.66	2.33
2.89 YES							
L0042376	0	0.41950E-07	441995.1	3760727.0	201.7	3.66	2.33
2.89 YES							
L0042377	0	0.41950E-07	441995.1	3760732.0	201.8	3.66	2.33
2.89 YES							
L0042378	0	0.41950E-07	441995.1	3760737.0	201.8	3.66	2.33
2.89 YES							
L0042379	0	0.41950E-07	441995.1	3760742.0	201.8	3.66	2.33
2.89 YES							
L0042380	0	0.41950E-07	441995.1	3760747.0	201.9	3.66	2.33
2.89 YES							
L0042381	0	0.41950E-07	441995.1	3760752.0	201.9	3.66	2.33
2.89 YES							
L0042382	0	0.41950E-07	441995.1	3760757.0	201.9	3.66	2.33
2.89 YES							
L0042383	0	0.41950E-07	441995.1	3760762.0	202.0	3.66	2.33
2.89 YES							

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.

SOL\_operations\_rev2.ADO

INIT. SOURCE SZ	URBAN SOURCE ID	EMISSION RATE PART. SCALAR	(GRAMS/SEC) VARY	X	Y	ELEV.	HEIGHT	SY
		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0042384		0	0.41950E-07	441995.1	3760767.0	202.0	3.66	2.33
2.89	YES							
L0042385		0	0.41950E-07	441995.1	3760772.0	202.0	3.66	2.33
2.89	YES							
L0042386		0	0.41950E-07	441995.1	3760777.0	202.1	3.66	2.33
2.89	YES							
L0042387		0	0.41950E-07	441995.1	3760782.0	202.1	3.66	2.33
2.89	YES							
L0042388		0	0.41950E-07	441995.1	3760787.0	202.1	3.66	2.33
2.89	YES							
L0042389		0	0.41950E-07	441995.1	3760792.0	202.1	3.66	2.33
2.89	YES							
L0042390		0	0.41950E-07	441995.1	3760797.0	202.2	3.66	2.33
2.89	YES							
L0042391		0	0.41950E-07	441995.2	3760802.0	202.2	3.66	2.33
2.89	YES							
L0042392		0	0.41950E-07	441995.2	3760807.0	202.2	3.66	2.33
2.89	YES							
L0042393		0	0.41950E-07	441995.2	3760812.0	202.2	3.66	2.33
2.89	YES							
L0042394		0	0.41950E-07	441995.2	3760817.0	202.2	3.66	2.33
2.89	YES							
L0042395		0	0.41950E-07	441995.2	3760822.0	202.3	3.66	2.33
2.89	YES							
L0042396		0	0.41950E-07	441995.2	3760827.0	202.3	3.66	2.33
2.89	YES							
L0042397		0	0.41950E-07	441995.2	3760832.0	202.3	3.66	2.33
2.89	YES							
L0042398		0	0.41950E-07	441995.2	3760837.0	202.4	3.66	2.33
2.89	YES							
L0042399		0	0.41950E-07	441995.2	3760842.0	202.4	3.66	2.33
2.89	YES							
L0042400		0	0.41950E-07	441995.2	3760847.0	202.4	3.66	2.33
2.89	YES							
L0042401		0	0.41950E-07	441995.2	3760852.0	202.5	3.66	2.33
2.89	YES							
L0042402		0	0.80080E-08	441995.0	3760856.2	202.5	3.66	2.33
2.89	YES							
L0042403		0	0.80080E-08	441994.9	3760861.2	202.5	3.66	2.33
2.89	YES							



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L0042404	0	0.80080E-08	441994.9	3760866.2	202.6	3.66	2.33
2.89	YES						
L0042405	0	0.80080E-08	441994.9	3760871.2	202.6	3.66	2.33
2.89	YES						
L0042406	0	0.80080E-08	441994.9	3760876.2	202.6	3.66	2.33
2.89	YES						
L0042407	0	0.80080E-08	441994.9	3760881.2	202.7	3.66	2.33
2.89	YES						
L0042408	0	0.80080E-08	441994.9	3760886.2	202.7	3.66	2.33
2.89	YES						
L0042409	0	0.80080E-08	441994.9	3760891.2	202.7	3.66	2.33
2.89	YES						
L0042410	0	0.80080E-08	441994.9	3760896.2	202.8	3.66	2.33
2.89	YES						
L0042411	0	0.80080E-08	441994.8	3760901.2	202.8	3.66	2.33
2.89	YES						
L0042412	0	0.80080E-08	441994.8	3760906.2	202.9	3.66	2.33
2.89	YES						
L0042413	0	0.80080E-08	441994.8	3760911.2	202.9	3.66	2.33
2.89	YES						
L0042414	0	0.80080E-08	441994.8	3760916.2	202.9	3.66	2.33
2.89	YES						
L0042415	0	0.80080E-08	441994.8	3760921.2	203.0	3.66	2.33
2.89	YES						
L0042416	0	0.80080E-08	441994.8	3760926.2	203.0	3.66	2.33
2.89	YES						
L0042417	0	0.80080E-08	441994.8	3760931.2	203.1	3.66	2.33
2.89	YES						
L0042418	0	0.80080E-08	441994.8	3760936.2	203.1	3.66	2.33
2.89	YES						
L0042419	0	0.80080E-08	441994.8	3760941.2	203.1	3.66	2.33
2.89	YES						
L0042420	0	0.80080E-08	441994.7	3760946.2	203.2	3.66	2.33
2.89	YES						
L0042421	0	0.80080E-08	441994.7	3760951.2	203.2	3.66	2.33
2.89	YES						
L0042422	0	0.80080E-08	441994.7	3760956.2	203.2	3.66	2.33
2.89	YES						
L0042423	0	0.80080E-08	441994.7	3760961.2	203.3	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
L0042424	0	0.80080E-08	441994.7	3760966.2	203.3	3.66	2.33	
2.89	YES							
L0042425	0	0.80080E-08	441994.7	3760971.2	203.3	3.66	2.33	
2.89	YES							
L0042426	0	0.80080E-08	441994.7	3760976.2	203.4	3.66	2.33	
2.89	YES							
L0042427	0	0.80080E-08	441994.7	3760981.2	203.4	3.66	2.33	
2.89	YES							
L0042428	0	0.80080E-08	441994.6	3760986.2	203.4	3.66	2.33	
2.89	YES							
L0042429	0	0.80080E-08	441994.6	3760991.2	203.5	3.66	2.33	
2.89	YES							
L0042430	0	0.80080E-08	441994.6	3760996.2	203.5	3.66	2.33	
2.89	YES							
L0042431	0	0.80080E-08	441994.6	3761001.2	203.5	3.66	2.33	
2.89	YES							
L0042432	0	0.80080E-08	441994.6	3761006.2	203.6	3.66	2.33	
2.89	YES							
L0042433	0	0.80080E-08	441994.6	3761011.2	203.6	3.66	2.33	
2.89	YES							
L0042434	0	0.80080E-08	441994.6	3761016.2	203.6	3.66	2.33	
2.89	YES							
L0042435	0	0.80080E-08	441994.6	3761021.2	203.7	3.66	2.33	
2.89	YES							
L0042436	0	0.80080E-08	441994.5	3761026.2	203.7	3.66	2.33	
2.89	YES							
L0042437	0	0.80080E-08	441994.5	3761031.2	203.7	3.66	2.33	
2.89	YES							
L0042438	0	0.80080E-08	441994.5	3761036.2	203.7	3.66	2.33	
2.89	YES							
L0042439	0	0.80080E-08	441994.5	3761041.2	203.8	3.66	2.33	
2.89	YES							
L0042440	0	0.80080E-08	441994.5	3761046.2	203.8	3.66	2.33	
2.89	YES							
L0042441	0	0.80080E-08	441994.5	3761051.2	203.8	3.66	2.33	
2.89	YES							

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L0042442	0	0.80080E-08	441994.5	3761056.2	203.8	3.66	2.33
2.89	YES						
L0042443	0	0.80080E-08	441994.5	3761061.2	203.9	3.66	2.33
2.89	YES						
L0042444	0	0.80080E-08	441994.5	3761066.2	203.9	3.66	2.33
2.89	YES						
L0042445	0	0.80080E-08	441994.4	3761071.2	203.9	3.66	2.33
2.89	YES						
L0042446	0	0.80080E-08	441994.4	3761076.2	203.9	3.66	2.33
2.89	YES						
L0042447	0	0.80080E-08	441994.4	3761081.2	204.0	3.66	2.33
2.89	YES						
L0042448	0	0.80080E-08	441994.4	3761086.2	204.0	3.66	2.33
2.89	YES						
L0042449	0	0.80080E-08	441994.4	3761091.2	204.0	3.66	2.33
2.89	YES						
L0042450	0	0.80080E-08	441994.4	3761096.2	204.1	3.66	2.33
2.89	YES						
L0042451	0	0.80080E-08	441994.4	3761101.2	204.1	3.66	2.33
2.89	YES						
L0042452	0	0.80080E-08	441994.4	3761106.2	204.1	3.66	2.33
2.89	YES						
L0042453	0	0.80080E-08	441994.4	3761111.2	204.2	3.66	2.33
2.89	YES						
L0042454	0	0.80080E-08	441994.4	3761116.2	204.2	3.66	2.33
2.89	YES						
L0042455	0	0.80080E-08	441994.4	3761121.2	204.2	3.66	2.33
2.89	YES						
L0042456	0	0.80080E-08	441994.4	3761126.2	204.2	3.66	2.33
2.89	YES						
L0042457	0	0.80080E-08	441994.4	3761131.2	204.3	3.66	2.33
2.89	YES						
L0042458	0	0.80080E-08	441994.4	3761136.2	204.3	3.66	2.33
2.89	YES						
L0042459	0	0.80080E-08	441994.4	3761141.2	204.3	3.66	2.33
2.89	YES						
L0042460	0	0.80080E-08	441994.4	3761146.2	204.4	3.66	2.33
2.89	YES						
L0042461	0	0.80080E-08	441994.4	3761151.2	204.4	3.66	2.33
2.89	YES						
L0042462	0	0.80080E-08	441994.4	3761156.2	204.5	3.66	2.33
2.89	YES						
L0042463	0	0.80080E-08	441994.4	3761161.2	204.5	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0042464		0	0.80080E-08	441994.4	3761166.2	204.5	3.66	2.33
2.89	YES							
L0042465		0	0.80080E-08	441994.4	3761171.2	204.6	3.66	2.33
2.89	YES							
L0042466		0	0.80080E-08	441994.4	3761176.2	204.6	3.66	2.33
2.89	YES							
L0042467		0	0.80080E-08	441994.4	3761181.2	204.7	3.66	2.33
2.89	YES							
L0042468		0	0.80080E-08	441994.4	3761186.2	204.7	3.66	2.33
2.89	YES							
L0042469		0	0.80080E-08	441994.4	3761191.2	204.8	3.66	2.33
2.89	YES							
L0042470		0	0.80080E-08	441994.4	3761196.2	204.8	3.66	2.33
2.89	YES							
L0042471		0	0.80080E-08	441994.4	3761201.2	204.9	3.66	2.33
2.89	YES							
L0042472		0	0.80080E-08	441994.4	3761206.2	205.0	3.66	2.33
2.89	YES							
L0042473		0	0.80080E-08	441994.4	3761211.2	205.0	3.66	2.33
2.89	YES							
L0042474		0	0.80080E-08	441994.4	3761216.2	205.0	3.66	2.33
2.89	YES							
L0042475		0	0.80080E-08	441994.4	3761221.2	205.1	3.66	2.33
2.89	YES							
L0042476		0	0.80080E-08	441994.4	3761226.2	205.1	3.66	2.33
2.89	YES							
L0042477		0	0.80080E-08	441994.4	3761231.2	205.1	3.66	2.33
2.89	YES							
L0042478		0	0.80080E-08	441994.4	3761236.2	205.1	3.66	2.33
2.89	YES							
L0042479		0	0.80080E-08	441994.4	3761241.2	205.2	3.66	2.33
2.89	YES							

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L0042480	0	0.80080E-08	441994.4	3761246.2	205.2	3.66	2.33
2.89	YES						
L0042481	0	0.80080E-08	441994.4	3761251.2	205.2	3.66	2.33
2.89	YES						
L0042482	0	0.80080E-08	441994.4	3761256.2	205.2	3.66	2.33
2.89	YES						
L0042483	0	0.80080E-08	441994.4	3761261.2	205.3	3.66	2.33
2.89	YES						
L0042484	0	0.80080E-08	441994.0	3761266.2	205.3	3.66	2.33
2.89	YES						
L0042485	0	0.80080E-08	441991.7	3761269.9	205.4	3.66	2.33
2.89	YES						
L0042486	0	0.80080E-08	441986.7	3761269.9	205.4	3.66	2.33
2.89	YES						
L0042487	0	0.80080E-08	441981.7	3761269.9	205.5	3.66	2.33
2.89	YES						
L0042488	0	0.80080E-08	441976.7	3761269.9	205.5	3.66	2.33
2.89	YES						
L0042489	0	0.80080E-08	441971.7	3761270.0	205.6	3.66	2.33
2.89	YES						
L0042490	0	0.80080E-08	441966.7	3761270.0	205.6	3.66	2.33
2.89	YES						
L0042491	0	0.80080E-08	441961.7	3761270.0	205.7	3.66	2.33
2.89	YES						
L0042492	0	0.80080E-08	441956.7	3761270.0	205.7	3.66	2.33
2.89	YES						
L0042493	0	0.80080E-08	441951.7	3761270.1	205.7	3.66	2.33
2.89	YES						
L0042494	0	0.80080E-08	441946.7	3761270.1	205.7	3.66	2.33
2.89	YES						
L0042495	0	0.80080E-08	441941.7	3761270.1	205.7	3.66	2.33
2.89	YES						
L0042496	0	0.80080E-08	441936.7	3761270.1	205.7	3.66	2.33
2.89	YES						
L0042497	0	0.80080E-08	441931.7	3761270.2	205.8	3.66	2.33
2.89	YES						
L0042498	0	0.80080E-08	441926.7	3761270.2	205.8	3.66	2.33
2.89	YES						
L0042499	0	0.80080E-08	441921.7	3761270.2	205.8	3.66	2.33
2.89	YES						
L0042500	0	0.80080E-08	441916.7	3761270.2	205.9	3.66	2.33
2.89	YES						
L0042501	0	0.80080E-08	441911.7	3761270.3	205.9	3.66	2.33
2.89	YES						
L0042502	0	0.80080E-08	441906.7	3761270.3	206.0	3.66	2.33
2.89	YES						
L0042503	0	0.80080E-08	441901.7	3761270.3	206.0	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0042504		0	0.80080E-08	441896.7	3761270.3	206.0	3.66	2.33
2.89	YES							
L0042505		0	0.80080E-08	441891.7	3761270.4	206.0	3.66	2.33
2.89	YES							
L0042506		0	0.80080E-08	441886.7	3761270.4	206.0	3.66	2.33
2.89	YES							
L0042507		0	0.80080E-08	441881.7	3761270.4	206.0	3.66	2.33
2.89	YES							
L0042508		0	0.80080E-08	441876.7	3761270.4	206.0	3.66	2.33
2.89	YES							
L0042509		0	0.80080E-08	441871.7	3761270.5	206.0	3.66	2.33
2.89	YES							
L0042510		0	0.80080E-08	441866.7	3761270.5	206.0	3.66	2.33
2.89	YES							
L0042511		0	0.80080E-08	441861.7	3761270.5	206.0	3.66	2.33
2.89	YES							
L0042512		0	0.80080E-08	441856.7	3761270.6	206.0	3.66	2.33
2.89	YES							
L0042513		0	0.80080E-08	441851.7	3761270.6	206.0	3.66	2.33
2.89	YES							
L0042514		0	0.80080E-08	441846.7	3761270.6	205.9	3.66	2.33
2.89	YES							
L0042515		0	0.80080E-08	441841.7	3761270.6	205.8	3.66	2.33
2.89	YES							
L0042516		0	0.80080E-08	441836.7	3761270.7	205.8	3.66	2.33
2.89	YES							
L0042517		0	0.80080E-08	441831.7	3761270.7	205.7	3.66	2.33
2.89	YES							

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L0042518	0	0.80080E-08	441826.7	3761270.7	205.7	3.66	2.33
2.89	YES						
L0042519	0	0.80080E-08	441821.7	3761270.7	205.6	3.66	2.33
2.89	YES						
L0042520	0	0.48610E-07	441191.4	3761269.6	204.1	3.66	2.33
2.89	YES						
L0042521	0	0.48610E-07	441196.4	3761269.6	204.1	3.66	2.33
2.89	YES						
L0042522	0	0.48610E-07	441201.4	3761269.6	204.2	3.66	2.33
2.89	YES						
L0042523	0	0.48610E-07	441206.4	3761269.7	204.2	3.66	2.33
2.89	YES						
L0042524	0	0.48610E-07	441211.4	3761269.7	204.3	3.66	2.33
2.89	YES						
L0042525	0	0.48610E-07	441216.4	3761269.7	204.3	3.66	2.33
2.89	YES						
L0042526	0	0.48610E-07	441221.4	3761269.7	204.3	3.66	2.33
2.89	YES						
L0042527	0	0.48610E-07	441226.4	3761269.7	204.3	3.66	2.33
2.89	YES						
L0042528	0	0.48610E-07	441231.4	3761269.7	204.4	3.66	2.33
2.89	YES						
L0042529	0	0.48610E-07	441236.4	3761269.8	204.4	3.66	2.33
2.89	YES						
L0042530	0	0.48610E-07	441241.4	3761269.8	204.4	3.66	2.33
2.89	YES						
L0042531	0	0.48610E-07	441246.4	3761269.8	204.4	3.66	2.33
2.89	YES						
L0042532	0	0.48610E-07	441251.4	3761269.8	204.4	3.66	2.33
2.89	YES						
L0042533	0	0.48610E-07	441256.4	3761269.8	204.5	3.66	2.33
2.89	YES						
L0042534	0	0.48610E-07	441261.4	3761269.9	204.5	3.66	2.33
2.89	YES						
L0042535	0	0.48610E-07	441266.4	3761269.9	204.5	3.66	2.33
2.89	YES						
L0042536	0	0.48610E-07	441271.4	3761269.9	204.5	3.66	2.33
2.89	YES						
L0042537	0	0.48610E-07	441276.4	3761269.9	204.5	3.66	2.33
2.89	YES						
L0042538	0	0.48610E-07	441281.4	3761269.9	204.5	3.66	2.33
2.89	YES						
L0042539	0	0.48610E-07	441286.4	3761269.9	204.6	3.66	2.33
2.89	YES						
L0042540	0	0.48610E-07	441291.4	3761270.0	204.6	3.66	2.33
2.89	YES						
L0042541	0	0.48610E-07	441296.4	3761270.0	204.6	3.66	2.33
2.89	YES						

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L0042542            0    0.48610E-07   441301.4 3761270.0    204.6        3.66        2.33  
 2.89    YES  
 L0042543            0    0.48610E-07   441306.4 3761270.0    204.6        3.66        2.33  
 2.89    YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*        \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0042544	0	0.48610E-07	441311.4	3761270.0	204.6	3.66	2.33
2.89	YES						
L0042545	0	0.48610E-07	441316.4	3761270.0	204.6	3.66	2.33
2.89	YES						
L0042546	0	0.48610E-07	441321.4	3761270.1	204.7	3.66	2.33
2.89	YES						
L0042547	0	0.48610E-07	441326.4	3761270.1	204.7	3.66	2.33
2.89	YES						
L0042548	0	0.48610E-07	441331.4	3761270.1	204.7	3.66	2.33
2.89	YES						
L0042549	0	0.48610E-07	441336.4	3761270.1	204.7	3.66	2.33
2.89	YES						
L0042550	0	0.48610E-07	441341.4	3761270.1	204.8	3.66	2.33
2.89	YES						
L0042551	0	0.48610E-07	441346.4	3761270.2	204.8	3.66	2.33
2.89	YES						
L0042552	0	0.48610E-07	441351.4	3761270.2	204.8	3.66	2.33
2.89	YES						
L0042553	0	0.48610E-07	441356.4	3761270.2	204.8	3.66	2.33
2.89	YES						
L0042554	0	0.48610E-07	441361.4	3761270.2	204.8	3.66	2.33
2.89	YES						
L0042555	0	0.48610E-07	441366.4	3761270.2	204.9	3.66	2.33
2.89	YES						



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L0042556	0	0.51790E-07	441370.2	3761270.3	204.9	3.66	2.33
2.89	YES						
L0042557	0	0.51790E-07	441375.2	3761270.3	204.9	3.66	2.33
2.89	YES						
L0042558	0	0.51790E-07	441380.2	3761270.2	204.9	3.66	2.33
2.89	YES						
L0042559	0	0.51790E-07	441385.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042560	0	0.51790E-07	441390.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042561	0	0.51790E-07	441395.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042562	0	0.51790E-07	441400.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042563	0	0.51790E-07	441405.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042564	0	0.51790E-07	441410.2	3761270.2	205.0	3.66	2.33
2.89	YES						
L0042565	0	0.51790E-07	441415.2	3761270.2	205.1	3.66	2.33
2.89	YES						
L0042566	0	0.51790E-07	441420.2	3761270.1	205.1	3.66	2.33
2.89	YES						
L0042567	0	0.51790E-07	441425.2	3761270.1	205.1	3.66	2.33
2.89	YES						
L0042568	0	0.51790E-07	441430.2	3761270.1	205.0	3.66	2.33
2.89	YES						
L0042569	0	0.51790E-07	441435.2	3761270.1	205.0	3.66	2.33
2.89	YES						
L0042570	0	0.51790E-07	441440.2	3761270.1	205.0	3.66	2.33
2.89	YES						
L0042571	0	0.51790E-07	441445.2	3761270.1	205.0	3.66	2.33
2.89	YES						
L0042572	0	0.51790E-07	441450.2	3761270.1	204.9	3.66	2.33
2.89	YES						
L0042573	0	0.51790E-07	441455.2	3761270.1	204.9	3.66	2.33
2.89	YES						
L0042574	0	0.51790E-07	441460.2	3761270.1	204.8	3.66	2.33
2.89	YES						
L0042575	0	0.51790E-07	441465.2	3761270.0	204.8	3.66	2.33
2.89	YES						
L0042576	0	0.51790E-07	441470.2	3761270.0	204.7	3.66	2.33
2.89	YES						
L0042577	0	0.51790E-07	441475.2	3761270.0	204.6	3.66	2.33
2.89	YES						
L0042578	0	0.51790E-07	441480.2	3761270.0	204.5	3.66	2.33
2.89	YES						
L0042579	0	0.51790E-07	441485.2	3761270.0	204.5	3.66	2.33
2.89	YES						

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L0042580	0	0.51790E-07	441490.2	3761270.0	204.4	3.66	2.33
2.89	YES						
L0042581	0	0.51790E-07	441495.2	3761270.0	204.4	3.66	2.33
2.89	YES						
L0042582	0	0.51790E-07	441500.2	3761270.0	204.5	3.66	2.33
2.89	YES						
L0042583	0	0.51790E-07	441505.2	3761270.0	204.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SCALAR	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0042584	0	0.34840E-07	441508.4	3761269.9	204.7	3.66	2.33
2.89	YES						
L0042585	0	0.34840E-07	441513.4	3761269.9	204.8	3.66	2.33
2.89	YES						
L0042586	0	0.34840E-07	441518.4	3761269.9	204.9	3.66	2.33
2.89	YES						
L0042587	0	0.34840E-07	441523.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042588	0	0.34840E-07	441528.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042589	0	0.34840E-07	441533.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042590	0	0.34840E-07	441538.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042591	0	0.34840E-07	441543.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042592	0	0.34840E-07	441548.4	3761270.0	204.9	3.66	2.33
2.89	YES						
L0042593	0	0.34840E-07	441553.4	3761270.0	204.9	3.66	2.33
2.89	YES						

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L0042594	0	0.34840E-07	441558.4	3761270.0	205.0	3.66	2.33
2.89	YES						
L0042595	0	0.34840E-07	441563.4	3761270.0	205.0	3.66	2.33
2.89	YES						
L0042596	0	0.34840E-07	441568.4	3761270.0	205.0	3.66	2.33
2.89	YES						
L0042597	0	0.34840E-07	441573.4	3761270.0	205.0	3.66	2.33
2.89	YES						
L0042598	0	0.34840E-07	441578.4	3761270.0	205.1	3.66	2.33
2.89	YES						
L0042599	0	0.34840E-07	441583.4	3761270.0	205.2	3.66	2.33
2.89	YES						
L0042600	0	0.34840E-07	441588.4	3761270.0	205.2	3.66	2.33
2.89	YES						
L0042601	0	0.34840E-07	441593.4	3761270.0	205.3	3.66	2.33
2.89	YES						
L0042602	0	0.34840E-07	441598.4	3761270.0	205.3	3.66	2.33
2.89	YES						
L0042603	0	0.34840E-07	441603.4	3761270.0	205.4	3.66	2.33
2.89	YES						
L0042604	0	0.34840E-07	441608.4	3761270.0	205.5	3.66	2.33
2.89	YES						
L0042605	0	0.34840E-07	441613.4	3761270.0	205.5	3.66	2.33
2.89	YES						
L0042606	0	0.34840E-07	441618.4	3761270.0	205.6	3.66	2.33
2.89	YES						
L0042607	0	0.34840E-07	441623.4	3761270.0	205.6	3.66	2.33
2.89	YES						
L0042608	0	0.34840E-07	441628.4	3761270.0	205.6	3.66	2.33
2.89	YES						
L0042609	0	0.34840E-07	441633.4	3761270.0	205.5	3.66	2.33
2.89	YES						
L0042610	0	0.34840E-07	441638.4	3761270.0	205.5	3.66	2.33
2.89	YES						
L0042611	0	0.34840E-07	441643.4	3761270.0	205.5	3.66	2.33
2.89	YES						
L0042612	0	0.34840E-07	441648.4	3761270.0	205.4	3.66	2.33
2.89	YES						
L0042613	0	0.34840E-07	441653.4	3761270.0	205.4	3.66	2.33
2.89	YES						
L0042614	0	0.34840E-07	441658.4	3761270.0	205.4	3.66	2.33
2.89	YES						
L0042615	0	0.19310E-07	441661.9	3761270.3	205.4	3.66	2.33
2.89	YES						
L0042616	0	0.19310E-07	441666.9	3761270.3	205.4	3.66	2.33
2.89	YES						
L0042617	0	0.19310E-07	441671.9	3761270.3	205.4	3.66	2.33
2.89	YES						

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L0042618	0	0.19310E-07	441676.9	3761270.3	205.4	3.66	2.33
2.89	YES						
L0042619	0	0.19310E-07	441681.9	3761270.3	205.4	3.66	2.33
2.89	YES						
L0042620	0	0.19310E-07	441686.9	3761270.3	205.4	3.66	2.33
2.89	YES						
L0042621	0	0.19310E-07	441691.9	3761270.4	205.4	3.66	2.33
2.89	YES						
L0042622	0	0.19310E-07	441696.9	3761270.4	205.4	3.66	2.33
2.89	YES						
L0042623	0	0.19310E-07	441701.9	3761270.4	205.5	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0042624	0	0.19310E-07	441706.9	3761270.4	205.5	3.66	2.33	
2.89	YES							
L0042625	0	0.19310E-07	441711.9	3761270.4	205.5	3.66	2.33	
2.89	YES							
L0042626	0	0.19310E-07	441716.9	3761270.4	205.5	3.66	2.33	
2.89	YES							
L0042627	0	0.19310E-07	441721.9	3761270.5	205.5	3.66	2.33	
2.89	YES							
L0042628	0	0.19310E-07	441726.9	3761270.5	205.5	3.66	2.33	
2.89	YES							
L0042629	0	0.19310E-07	441731.9	3761270.5	205.5	3.66	2.33	
2.89	YES							
L0042630	0	0.19310E-07	441736.9	3761270.5	205.5	3.66	2.33	
2.89	YES							
L0042631	0	0.19310E-07	441741.9	3761270.5	205.5	3.66	2.33	
2.89	YES							

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L0042632	0	0.19310E-07	441746.9	3761270.5	205.5	3.66	2.33
2.89	YES						
L0042633	0	0.19310E-07	441751.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042634	0	0.19310E-07	441756.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042635	0	0.19310E-07	441761.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042636	0	0.19310E-07	441766.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042637	0	0.19310E-07	441771.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042638	0	0.19310E-07	441776.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042639	0	0.19310E-07	441781.9	3761270.6	205.5	3.66	2.33
2.89	YES						
L0042640	0	0.19310E-07	441786.9	3761270.7	205.5	3.66	2.33
2.89	YES						
L0042641	0	0.19310E-07	441791.9	3761270.7	205.5	3.66	2.33
2.89	YES						
L0042642	0	0.19310E-07	441796.9	3761270.7	205.5	3.66	2.33
2.89	YES						
L0042643	0	0.19310E-07	441801.9	3761270.7	205.6	3.66	2.33
2.89	YES						
L0042644	0	0.19310E-07	441806.9	3761270.7	205.6	3.66	2.33
2.89	YES						
L0042645	0	0.19310E-07	441811.9	3761270.7	205.6	3.66	2.33
2.89	YES						
L0042646	0	0.19310E-07	441816.9	3761270.8	205.6	3.66	2.33
2.89	YES						
L0042647	0	0.13920E-07	441370.7	3761267.2	204.8	3.66	2.33
2.89	YES						
L0042648	0	0.13920E-07	441370.8	3761262.2	204.7	3.66	2.33
2.89	YES						
L0042649	0	0.13920E-07	441370.9	3761257.2	204.6	3.66	2.33
2.89	YES						
L0042650	0	0.13920E-07	441370.9	3761252.2	204.5	3.66	2.33
2.89	YES						
L0042651	0	0.13920E-07	441371.0	3761247.2	204.4	3.66	2.33
2.89	YES						
L0042652	0	0.13920E-07	441371.1	3761242.2	204.3	3.66	2.33
2.89	YES						
L0042653	0	0.13920E-07	441371.2	3761237.2	204.3	3.66	2.33
2.89	YES						
L0042654	0	0.13920E-07	441371.2	3761232.2	204.2	3.66	2.33
2.89	YES						
L0042655	0	0.13920E-07	441371.3	3761227.2	204.2	3.66	2.33
2.89	YES						

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L0042656	0	0.13920E-07	441371.4	3761222.2	204.1	3.66	2.33
2.89	YES						
L0042657	0	0.13920E-07	441371.5	3761217.2	204.1	3.66	2.33
2.89	YES						
L0042658	0	0.13920E-07	441371.6	3761212.2	204.0	3.66	2.33
2.89	YES						
L0042659	0	0.13920E-07	441371.6	3761207.2	204.0	3.66	2.33
2.89	YES						
L0042660	0	0.13920E-07	441371.7	3761202.2	204.0	3.66	2.33
2.89	YES						
L0042661	0	0.13920E-07	441371.8	3761197.2	204.0	3.66	2.33
2.89	YES						
L0042662	0	0.13920E-07	441371.9	3761192.2	203.9	3.66	2.33
2.89	YES						
L0042663	0	0.13920E-07	441371.9	3761187.2	203.9	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)
		CATS.	BY		(METERS)	(METERS)	(METERS)
L0042664	0	0.13920E-07	441372.0	3761182.2	203.9	3.66	2.33
2.89	YES						
L0042665	0	0.13920E-07	441372.1	3761177.2	203.9	3.66	2.33
2.89	YES						
L0042666	0	0.13920E-07	441372.2	3761172.2	203.8	3.66	2.33
2.89	YES						
L0042667	0	0.13920E-07	441372.2	3761167.2	203.8	3.66	2.33
2.89	YES						
L0042668	0	0.13920E-07	441372.3	3761162.2	203.8	3.66	2.33
2.89	YES						
L0042669	0	0.13920E-07	441372.4	3761157.2	203.7	3.66	2.33
2.89	YES						

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L0042670	0	0.13920E-07	441372.5	3761152.2	203.7	3.66	2.33
2.89	YES						
L0042671	0	0.13920E-07	441372.5	3761147.2	203.7	3.66	2.33
2.89	YES						
L0042672	0	0.13880E-07	441508.3	3761266.5	204.7	3.66	2.33
2.89	YES						
L0042673	0	0.13880E-07	441508.3	3761261.5	204.6	3.66	2.33
2.89	YES						
L0042674	0	0.13880E-07	441508.3	3761256.5	204.6	3.66	2.33
2.89	YES						
L0042675	0	0.13880E-07	441508.4	3761251.5	204.6	3.66	2.33
2.89	YES						
L0042676	0	0.13880E-07	441508.4	3761246.5	204.5	3.66	2.33
2.89	YES						
L0042677	0	0.13880E-07	441508.4	3761241.5	204.5	3.66	2.33
2.89	YES						
L0042678	0	0.13880E-07	441508.4	3761236.5	204.4	3.66	2.33
2.89	YES						
L0042679	0	0.13880E-07	441508.5	3761231.5	204.4	3.66	2.33
2.89	YES						
L0042680	0	0.13880E-07	441508.5	3761226.5	204.3	3.66	2.33
2.89	YES						
L0042681	0	0.13880E-07	441508.5	3761221.5	204.2	3.66	2.33
2.89	YES						
L0042682	0	0.13880E-07	441508.5	3761216.5	204.2	3.66	2.33
2.89	YES						
L0042683	0	0.13880E-07	441508.6	3761211.5	204.1	3.66	2.33
2.89	YES						
L0042684	0	0.13880E-07	441508.6	3761206.5	204.1	3.66	2.33
2.89	YES						
L0042685	0	0.13880E-07	441508.6	3761201.5	204.1	3.66	2.33
2.89	YES						
L0042686	0	0.13880E-07	441508.6	3761196.5	204.0	3.66	2.33
2.89	YES						
L0042687	0	0.13880E-07	441508.7	3761191.5	204.0	3.66	2.33
2.89	YES						
L0042688	0	0.13880E-07	441508.7	3761186.5	204.0	3.66	2.33
2.89	YES						
L0042689	0	0.13880E-07	441508.7	3761181.5	203.9	3.66	2.33
2.89	YES						
L0042690	0	0.13880E-07	441508.7	3761176.5	203.9	3.66	2.33
2.89	YES						
L0042691	0	0.13880E-07	441508.8	3761171.5	203.9	3.66	2.33
2.89	YES						
L0042692	0	0.13880E-07	441508.8	3761166.5	203.8	3.66	2.33
2.89	YES						
L0042693	0	0.13880E-07	441508.8	3761161.5	203.8	3.66	2.33
2.89	YES						

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L0042694	0	0.13880E-07	441508.8	3761156.5	203.8	3.66	2.33
2.89	YES						
L0042695	0	0.13880E-07	441508.8	3761151.5	203.7	3.66	2.33
2.89	YES						
L0042696	0	0.13880E-07	441508.9	3761146.5	203.7	3.66	2.33
2.89	YES						
L0042697	0	0.13920E-07	441659.1	3761266.7	205.4	3.66	2.33
2.89	YES						
L0042698	0	0.13920E-07	441659.2	3761261.7	205.3	3.66	2.33
2.89	YES						
L0042699	0	0.13920E-07	441659.2	3761256.7	205.3	3.66	2.33
2.89	YES						
L0042700	0	0.13920E-07	441659.2	3761251.7	205.2	3.66	2.33
2.89	YES						
L0042701	0	0.13920E-07	441659.3	3761246.7	205.2	3.66	2.33
2.89	YES						
L0042702	0	0.13920E-07	441659.3	3761241.7	205.1	3.66	2.33
2.89	YES						
L0042703	0	0.13920E-07	441659.3	3761236.7	205.1	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0042704	0	0.13920E-07	441659.4	3761231.7	205.0	3.66	2.33
2.89	YES						
L0042705	0	0.13920E-07	441659.4	3761226.7	205.0	3.66	2.33
2.89	YES						
L0042706	0	0.13920E-07	441659.4	3761221.7	204.9	3.66	2.33
2.89	YES						
L0042707	0	0.13920E-07	441659.5	3761216.7	204.9	3.66	2.33
2.89	YES						



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L0042708	0	0.13920E-07	441659.5	3761211.7	204.8	3.66	2.33
2.89	YES						
L0042709	0	0.13920E-07	441659.5	3761206.7	204.8	3.66	2.33
2.89	YES						
L0042710	0	0.13920E-07	441659.5	3761201.7	204.7	3.66	2.33
2.89	YES						
L0042711	0	0.13920E-07	441659.6	3761196.7	204.7	3.66	2.33
2.89	YES						
L0042712	0	0.13920E-07	441659.6	3761191.7	204.6	3.66	2.33
2.89	YES						
L0042713	0	0.13920E-07	441659.6	3761186.7	204.6	3.66	2.33
2.89	YES						
L0042714	0	0.13920E-07	441659.7	3761181.7	204.5	3.66	2.33
2.89	YES						
L0042715	0	0.13920E-07	441659.7	3761176.7	204.5	3.66	2.33
2.89	YES						
L0042716	0	0.13920E-07	441659.7	3761171.7	204.4	3.66	2.33
2.89	YES						
L0042717	0	0.13920E-07	441659.8	3761166.7	204.4	3.66	2.33
2.89	YES						
L0042718	0	0.13920E-07	441659.8	3761161.7	204.3	3.66	2.33
2.89	YES						
L0042719	0	0.13920E-07	441659.8	3761156.7	204.2	3.66	2.33
2.89	YES						
L0042720	0	0.13920E-07	441659.9	3761151.7	204.2	3.66	2.33
2.89	YES						
L0042721	0	0.13920E-07	441659.9	3761146.7	204.2	3.66	2.33
2.89	YES						
L0042722	0	0.27560E-07	441819.2	3761267.3	205.6	3.66	2.33
2.89	YES						
L0042723	0	0.27560E-07	441819.2	3761262.3	205.6	3.66	2.33
2.89	YES						
L0042724	0	0.27560E-07	441819.1	3761257.3	205.6	3.66	2.33
2.89	YES						
L0042725	0	0.27560E-07	441819.1	3761252.3	205.5	3.66	2.33
2.89	YES						
L0042726	0	0.27560E-07	441819.0	3761247.3	205.5	3.66	2.33
2.89	YES						
L0042727	0	0.27560E-07	441819.0	3761242.3	205.5	3.66	2.33
2.89	YES						
L0042728	0	0.27560E-07	441819.0	3761237.3	205.4	3.66	2.33
2.89	YES						
L0042729	0	0.27560E-07	441818.9	3761232.3	205.4	3.66	2.33
2.89	YES						
L0042730	0	0.27560E-07	441818.9	3761227.3	205.3	3.66	2.33
2.89	YES						
L0042731	0	0.27560E-07	441818.8	3761222.3	205.2	3.66	2.33
2.89	YES						

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L0042732	0	0.27560E-07	441818.8	3761217.3	205.2	3.66	2.33
2.89	YES						
L0042733	0	0.27560E-07	441818.8	3761212.3	205.1	3.66	2.33
2.89	YES						
L0042734	0	0.27560E-07	441818.7	3761207.3	205.0	3.66	2.33
2.89	YES						
L0042735	0	0.27560E-07	441818.7	3761202.3	205.0	3.66	2.33
2.89	YES						
L0042736	0	0.27560E-07	441818.6	3761197.3	204.9	3.66	2.33
2.89	YES						
L0042737	0	0.27560E-07	441818.6	3761192.3	204.9	3.66	2.33
2.89	YES						
L0042738	0	0.27560E-07	441818.6	3761187.3	204.8	3.66	2.33
2.89	YES						
L0042739	0	0.27560E-07	441818.5	3761182.3	204.8	3.66	2.33
2.89	YES						
L0042740	0	0.27560E-07	441818.5	3761177.3	204.7	3.66	2.33
2.89	YES						
L0042741	0	0.27560E-07	441818.5	3761172.3	204.7	3.66	2.33
2.89	YES						
L0042742	0	0.27560E-07	441818.4	3761167.3	204.6	3.66	2.33
2.89	YES						
L0042743	0	0.27560E-07	441818.4	3761162.3	204.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0042744	0	0.27560E-07	441818.3	3761157.3	204.6	3.66	2.33
2.89	YES						
L0042745	0	0.27560E-07	441818.3	3761152.3	204.5	3.66	2.33
2.89	YES						

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L0042746	0	0.27560E-07	441818.3	3761147.3	204.5	3.66	2.33
2.89	YES						
L0042747	0	0.82240E-07	441960.2	3760855.8	202.7	3.66	2.33
2.89	YES						
L0042748	0	0.82240E-07	441955.2	3760855.8	202.8	3.66	2.33
2.89	YES						
L0042749	0	0.82240E-07	441950.2	3760855.8	202.8	3.66	2.33
2.89	YES						
L0042750	0	0.82240E-07	441945.2	3760855.8	202.8	3.66	2.33
2.89	YES						
L0042751	0	0.82240E-07	441940.2	3760855.9	202.8	3.66	2.33
2.89	YES						
L0042752	0	0.82240E-07	441935.2	3760855.9	202.7	3.66	2.33
2.89	YES						
L0042753	0	0.82240E-07	441930.2	3760855.9	202.7	3.66	2.33
2.89	YES						
L0042754	0	0.82240E-07	441925.2	3760855.9	202.7	3.66	2.33
2.89	YES						
L0042755	0	0.82240E-07	441920.2	3760855.9	202.6	3.66	2.33
2.89	YES						
L0042756	0	0.82240E-07	441915.2	3760856.0	202.6	3.66	2.33
2.89	YES						
L0042757	0	0.82240E-07	441910.2	3760856.0	202.6	3.66	2.33
2.89	YES						
L0042758	0	0.82240E-07	441905.2	3760856.0	202.6	3.66	2.33
2.89	YES						
L0042759	0	0.82240E-07	441900.2	3760856.0	202.5	3.66	2.33
2.89	YES						
L0042760	0	0.82240E-07	441895.2	3760856.1	202.5	3.66	2.33
2.89	YES						
L0042761	0	0.82240E-07	441890.2	3760856.1	202.5	3.66	2.33
2.89	YES						
L0042762	0	0.82240E-07	441885.2	3760856.1	202.5	3.66	2.33
2.89	YES						
L0042763	0	0.82240E-07	441880.2	3760856.1	202.4	3.66	2.33
2.89	YES						
L0042764	0	0.82240E-07	441875.2	3760856.2	202.4	3.66	2.33
2.89	YES						
L0042765	0	0.82240E-07	441870.2	3760856.2	202.4	3.66	2.33
2.89	YES						
L0042766	0	0.82240E-07	441865.2	3760856.2	202.4	3.66	2.33
2.89	YES						
L0042767	0	0.82240E-07	441860.2	3760856.2	202.4	3.66	2.33
2.89	YES						
L0042768	0	0.82240E-07	441855.2	3760856.3	202.3	3.66	2.33
2.89	YES						
L0042769	0	0.82240E-07	441850.2	3760856.3	202.3	3.66	2.33
2.89	YES						

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L0042770	0	0.82240E-07	441845.2	3760856.3	202.3	3.66	2.33
2.89	YES						
L0042771	0	0.82240E-07	441840.2	3760856.3	202.3	3.66	2.33
2.89	YES						
L0042772	0	0.82240E-07	441835.2	3760856.4	202.3	3.66	2.33
2.89	YES						
L0042773	0	0.82240E-07	441830.2	3760856.4	202.3	3.66	2.33
2.89	YES						
L0042774	0	0.82240E-07	441825.2	3760856.4	202.4	3.66	2.33
2.89	YES						
L0042775	0	0.82240E-07	441820.2	3760856.4	202.4	3.66	2.33
2.89	YES						
L0042776	0	0.82240E-07	441815.2	3760856.5	202.4	3.66	2.33
2.89	YES						
L0042777	0	0.82240E-07	441810.2	3760856.5	202.4	3.66	2.33
2.89	YES						
L0042778	0	0.82240E-07	441805.2	3760856.5	202.4	3.66	2.33
2.89	YES						
L0042779	0	0.82240E-07	441800.2	3760856.5	202.4	3.66	2.33
2.89	YES						
L0042780	0	0.82240E-07	441795.2	3760856.6	202.3	3.66	2.33
2.89	YES						
L0042781	0	0.82240E-07	441790.2	3760856.6	202.3	3.66	2.33
2.89	YES						
L0042782	0	0.82240E-07	441785.2	3760856.6	202.3	3.66	2.33
2.89	YES						
L0042783	0	0.82240E-07	441780.2	3760856.6	202.3	3.66	2.33
2.89	YES						

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

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L0042784	0	0.82240E-07	441775.2	3760856.7	202.3	3.66	2.33
2.89	YES						
L0042785	0	0.82240E-07	441770.2	3760856.7	202.3	3.66	2.33
2.89	YES						
L0042786	0	0.82240E-07	441765.2	3760856.7	202.3	3.66	2.33
2.89	YES						
L0042787	0	0.82240E-07	441760.2	3760856.7	202.3	3.66	2.33
2.89	YES						
L0042788	0	0.82240E-07	441755.2	3760856.8	202.3	3.66	2.33
2.89	YES						
L0042789	0	0.82240E-07	441750.2	3760856.8	202.2	3.66	2.33
2.89	YES						
L0042790	0	0.82240E-07	441745.2	3760856.8	202.2	3.66	2.33
2.89	YES						
L0042791	0	0.82240E-07	441740.2	3760856.8	202.2	3.66	2.33
2.89	YES						
L0042792	0	0.82240E-07	441735.2	3760856.9	202.2	3.66	2.33
2.89	YES						
L0042793	0	0.82240E-07	441730.2	3760856.9	202.2	3.66	2.33
2.89	YES						
L0042794	0	0.82240E-07	441725.2	3760856.9	202.2	3.66	2.33
2.89	YES						
L0042795	0	0.82240E-07	441720.2	3760856.9	202.2	3.66	2.33
2.89	YES						
L0042796	0	0.82240E-07	441715.2	3760857.0	202.2	3.66	2.33
2.89	YES						
L0042797	0	0.82240E-07	441710.2	3760857.0	202.2	3.66	2.33
2.89	YES						
L0042798	0	0.82240E-07	441705.2	3760857.0	202.2	3.66	2.33
2.89	YES						
L0042799	0	0.82240E-07	441700.2	3760857.0	202.1	3.66	2.33
2.89	YES						
L0042800	0	0.82240E-07	441695.2	3760857.1	202.1	3.66	2.33
2.89	YES						
L0042801	0	0.82240E-07	441690.2	3760857.1	202.1	3.66	2.33
2.89	YES						
L0042802	0	0.82240E-07	441685.2	3760857.1	202.1	3.66	2.33
2.89	YES						
L0042803	0	0.82240E-07	441680.2	3760857.1	202.1	3.66	2.33
2.89	YES						
L0042804	0	0.82240E-07	441675.2	3760857.2	202.1	3.66	2.33
2.89	YES						
L0042805	0	0.82240E-07	441670.2	3760857.2	202.1	3.66	2.33
2.89	YES						
L0042806	0	0.82240E-07	441665.2	3760857.2	202.1	3.66	2.33
2.89	YES						
L0042807	0	0.82240E-07	441660.2	3760857.2	202.1	3.66	2.33
2.89	YES						

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L0042808	0	0.82240E-07	441655.2	3760857.2	202.1	3.66	2.33
2.89	YES						
L0042809	0	0.82240E-07	441650.2	3760857.3	202.1	3.66	2.33
2.89	YES						
L0042810	0	0.82240E-07	441645.2	3760857.3	202.1	3.66	2.33
2.89	YES						
L0042811	0	0.82240E-07	441640.2	3760857.3	202.1	3.66	2.33
2.89	YES						
L0042812	0	0.82240E-07	441635.2	3760857.3	202.1	3.66	2.33
2.89	YES						
L0042813	0	0.82240E-07	441630.2	3760857.4	202.1	3.66	2.33
2.89	YES						
L0042814	0	0.82240E-07	441625.2	3760857.4	202.1	3.66	2.33
2.89	YES						
L0042815	0	0.82240E-07	441620.2	3760857.4	202.1	3.66	2.33
2.89	YES						
L0042816	0	0.82240E-07	441615.2	3760857.4	202.1	3.66	2.33
2.89	YES						
L0042817	0	0.82240E-07	441610.2	3760857.5	202.0	3.66	2.33
2.89	YES						
L0042818	0	0.82240E-07	441605.2	3760857.5	202.0	3.66	2.33
2.89	YES						
L0042819	0	0.82240E-07	441600.2	3760857.5	201.9	3.66	2.33
2.89	YES						
L0042820	0	0.82240E-07	441595.2	3760857.5	201.9	3.66	2.33
2.89	YES						
L0042821	0	0.82240E-07	441590.2	3760857.6	201.9	3.66	2.33
2.89	YES						
L0042822	0	0.82240E-07	441585.2	3760857.6	201.8	3.66	2.33
2.89	YES						
L0042823	0	0.82240E-07	441580.2	3760857.6	201.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)

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(METERS)

BY

L0042824	0	0.82240E-07	441575.2	3760857.6	201.7	3.66	2.33
2.89 YES							
L0042825	0	0.82240E-07	441570.2	3760857.7	201.7	3.66	2.33
2.89 YES							
L0042826	0	0.82240E-07	441565.2	3760857.7	201.7	3.66	2.33
2.89 YES							
L0042827	0	0.82240E-07	441560.2	3760857.7	201.8	3.66	2.33
2.89 YES							
L0042828	0	0.82240E-07	441555.2	3760857.7	201.9	3.66	2.33
2.89 YES							
L0042829	0	0.82240E-07	441550.2	3760857.8	201.9	3.66	2.33
2.89 YES							
L0042830	0	0.82240E-07	441545.2	3760857.8	202.0	3.66	2.33
2.89 YES							
L0042831	0	0.82240E-07	441540.2	3760857.8	202.1	3.66	2.33
2.89 YES							
L0042832	0	0.16750E-07	441193.7	3761142.6	203.1	3.66	2.33
2.89 YES							
L0042833	0	0.16750E-07	441198.7	3761142.7	203.2	3.66	2.33
2.89 YES							
L0042834	0	0.16750E-07	441203.7	3761142.8	203.3	3.66	2.33
2.89 YES							
L0042835	0	0.16750E-07	441208.7	3761142.9	203.4	3.66	2.33
2.89 YES							
L0042836	0	0.81750E-07	441552.1	3760470.1	200.0	3.66	2.33
2.89 YES							
L0042837	0	0.81750E-07	441552.1	3760475.1	200.0	3.66	2.33
2.89 YES							
L0042838	0	0.81750E-07	441552.1	3760480.1	199.9	3.66	2.33
2.89 YES							
L0042839	0	0.81750E-07	441552.1	3760485.1	199.8	3.66	2.33
2.89 YES							
L0042840	0	0.81750E-07	441552.1	3760490.1	199.7	3.66	2.33
2.89 YES							
L0042841	0	0.81750E-07	441549.9	3760494.4	199.7	3.66	2.33
2.89 YES							
L0042842	0	0.81750E-07	441546.7	3760498.2	199.6	3.66	2.33
2.89 YES							
L0042843	0	0.81750E-07	441543.5	3760502.1	199.6	3.66	2.33
2.89 YES							
L0042844	0	0.81750E-07	441540.4	3760506.0	199.6	3.66	2.33
2.89 YES							
L0042845	0	0.81750E-07	441537.2	3760509.8	199.6	3.66	2.33
2.89 YES							

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L0042846	0	0.81750E-07	441534.1	3760513.7	199.6	3.66	2.33
2.89 YES							
L0042847	0	0.81750E-07	441530.9	3760517.6	199.6	3.66	2.33
2.89 YES							
L0042848	0	0.33830E-07	441746.7	3760472.7	200.1	3.66	2.33
2.89 YES							
L0042849	0	0.33830E-07	441746.7	3760477.7	200.1	3.66	2.33
2.89 YES							
L0042850	0	0.33830E-07	441746.7	3760482.7	200.1	3.66	2.33
2.89 YES							
L0042851	0	0.33830E-07	441746.7	3760487.7	200.1	3.66	2.33
2.89 YES							
L0042852	0	0.33830E-07	441746.7	3760492.7	200.0	3.66	2.33
2.89 YES							
L0042853	0	0.33830E-07	441746.7	3760497.7	200.0	3.66	2.33
2.89 YES							
L0042854	0	0.25800E-07	441184.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042855	0	0.25800E-07	441179.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042856	0	0.25800E-07	441174.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042857	0	0.25800E-07	441169.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042858	0	0.25800E-07	441164.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042859	0	0.25800E-07	441159.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042860	0	0.25800E-07	441154.0	3760874.8	201.3	3.66	2.33
2.89 YES							
L0042861	0	0.25800E-07	441149.0	3760874.8	201.4	3.66	2.33
2.89 YES							
L0042862	0	0.25800E-07	441144.0	3760874.7	201.4	3.66	2.33
2.89 YES							
L0042863	0	0.25800E-07	441139.0	3760874.7	201.4	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.



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INIT.	URBAN	EMISSION RATE						
SOURCE		PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	
SZ	SOURCE	SCALAR VARY						
ID		CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						
L0042864		0	0.75250E-07	440992.0	3760470.5	197.8	3.66	2.33
2.89	YES							
L0042865		0	0.75250E-07	440992.0	3760475.5	197.8	3.66	2.33
2.89	YES							
L0042866		0	0.75250E-07	440992.0	3760480.5	198.0	3.66	2.33
2.89	YES							
L0042867		0	0.75250E-07	440992.0	3760485.5	198.1	3.66	2.33
2.89	YES							
L0042868		0	0.75250E-07	440992.0	3760490.5	198.2	3.66	2.33
2.89	YES							
L0042869		0	0.75250E-07	440992.0	3760495.5	198.4	3.66	2.33
2.89	YES							
L0042870		0	0.75250E-07	440992.0	3760500.5	198.5	3.66	2.33
2.89	YES							
L0042871		0	0.75250E-07	440991.9	3760505.5	198.6	3.66	2.33
2.89	YES							
L0042872		0	0.56930E-07	440778.6	3760472.1	196.7	3.66	2.33
2.89	YES							
L0042873		0	0.56930E-07	440778.6	3760477.1	196.8	3.66	2.33
2.89	YES							
L0042874		0	0.56930E-07	440778.6	3760482.1	196.8	3.66	2.33
2.89	YES							
L0042875		0	0.56930E-07	440778.6	3760487.1	196.8	3.66	2.33
2.89	YES							
L0042876		0	0.56930E-07	440778.6	3760492.1	196.9	3.66	2.33
2.89	YES							
L0042877		0	0.56930E-07	440778.7	3760497.1	196.9	3.66	2.33
2.89	YES							
L0042878		0	0.56930E-07	440778.7	3760502.1	196.9	3.66	2.33
2.89	YES							
L0042879		0	0.56930E-07	440778.7	3760507.1	196.9	3.66	2.33
2.89	YES							
L0042880		0	0.56930E-07	440778.7	3760512.1	197.0	3.66	2.33
2.89	YES							
L0042881		0	0.56930E-07	440778.7	3760517.1	197.0	3.66	2.33
2.89	YES							
L0042882		0	0.56930E-07	440778.8	3760522.1	197.1	3.66	2.33
2.89	YES							
L0042883		0	0.56930E-07	440778.8	3760527.1	197.1	3.66	2.33
2.89	YES							

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L0042884	0	0.56930E-07	440778.8	3760532.1	197.1	3.66	2.33
2.89	YES						
L0042885	0	0.56930E-07	440778.8	3760537.1	197.2	3.66	2.33
2.89	YES						
L0042886	0	0.56930E-07	440778.8	3760542.1	197.2	3.66	2.33
2.89	YES						
L0042887	0	0.56930E-07	440778.9	3760547.1	197.2	3.66	2.33
2.89	YES						
L0042888	0	0.56930E-07	440778.9	3760552.1	197.3	3.66	2.33
2.89	YES						
L0042889	0	0.56930E-07	440778.9	3760557.1	197.3	3.66	2.33
2.89	YES						
L0042890	0	0.56930E-07	440778.9	3760562.1	197.4	3.66	2.33
2.89	YES						
L0042891	0	0.56930E-07	440778.9	3760567.1	197.4	3.66	2.33
2.89	YES						
L0042892	0	0.56930E-07	440778.9	3760572.1	197.5	3.66	2.33
2.89	YES						
L0042893	0	0.56930E-07	440779.0	3760577.1	197.5	3.66	2.33
2.89	YES						
L0042894	0	0.56930E-07	440779.0	3760582.1	197.5	3.66	2.33
2.89	YES						
L0042895	0	0.56930E-07	440779.0	3760587.1	197.6	3.66	2.33
2.89	YES						
L0042896	0	0.56930E-07	440779.0	3760592.1	197.6	3.66	2.33
2.89	YES						
L0042897	0	0.56930E-07	440779.0	3760597.1	197.7	3.66	2.33
2.89	YES						
L0042898	0	0.56930E-07	440779.1	3760602.1	197.7	3.66	2.33
2.89	YES						
L0042899	0	0.56930E-07	440779.1	3760607.1	197.8	3.66	2.33
2.89	YES						
L0042900	0	0.56930E-07	440779.1	3760612.1	197.8	3.66	2.33
2.89	YES						
L0042901	0	0.56930E-07	440779.1	3760617.1	197.8	3.66	2.33
2.89	YES						
L0042902	0	0.56930E-07	440779.1	3760622.1	197.9	3.66	2.33
2.89	YES						
L0042903	0	0.56930E-07	440779.1	3760627.1	197.9	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0042904		0	0.56930E-07	440779.2	3760632.1	198.0	3.66	2.33
2.89	YES							
L0042905		0	0.56930E-07	440779.2	3760637.1	198.0	3.66	2.33
2.89	YES							
L0042906		0	0.56930E-07	440779.2	3760642.1	198.0	3.66	2.33
2.89	YES							
L0042907		0	0.56930E-07	440779.2	3760647.1	198.1	3.66	2.33
2.89	YES							
L0042908		0	0.56930E-07	440779.2	3760652.1	198.1	3.66	2.33
2.89	YES							
L0042909		0	0.56930E-07	440779.3	3760657.1	198.2	3.66	2.33
2.89	YES							
L0042910		0	0.56930E-07	440779.3	3760662.1	198.2	3.66	2.33
2.89	YES							
L0042911		0	0.56930E-07	440779.3	3760667.1	198.3	3.66	2.33
2.89	YES							
L0042912		0	0.56930E-07	440779.3	3760672.1	198.3	3.66	2.33
2.89	YES							
L0042913		0	0.56930E-07	440779.3	3760677.1	198.4	3.66	2.33
2.89	YES							
L0042914		0	0.56930E-07	440779.3	3760682.1	198.4	3.66	2.33
2.89	YES							
L0042915		0	0.56930E-07	440779.4	3760687.1	198.4	3.66	2.33
2.89	YES							
L0042916		0	0.56930E-07	440779.4	3760692.1	198.5	3.66	2.33
2.89	YES							
L0042917		0	0.56930E-07	440779.4	3760697.1	198.5	3.66	2.33
2.89	YES							
L0042918		0	0.56930E-07	440779.4	3760702.1	198.6	3.66	2.33
2.89	YES							
L0042919		0	0.56930E-07	440779.4	3760707.1	198.6	3.66	2.33
2.89	YES							
L0042920		0	0.56930E-07	440779.5	3760712.1	198.6	3.66	2.33
2.89	YES							
L0042921		0	0.56930E-07	440779.5	3760717.1	198.7	3.66	2.33
2.89	YES							

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L0042922	0	0.56930E-07	440779.5	3760722.1	198.7	3.66	2.33
2.89 YES							
L0042923	0	0.56930E-07	440779.5	3760727.1	198.8	3.66	2.33
2.89 YES							
L0042924	0	0.56930E-07	440779.5	3760732.1	198.8	3.66	2.33
2.89 YES							
L0042925	0	0.56930E-07	440779.6	3760737.1	198.8	3.66	2.33
2.89 YES							
L0042926	0	0.56930E-07	440779.6	3760742.1	198.8	3.66	2.33
2.89 YES							
L0042927	0	0.56930E-07	440779.6	3760747.1	198.9	3.66	2.33
2.89 YES							
L0042928	0	0.56930E-07	440779.6	3760752.1	198.9	3.66	2.33
2.89 YES							
L0042929	0	0.56930E-07	440779.6	3760757.1	199.0	3.66	2.33
2.89 YES							
L0042930	0	0.56930E-07	440779.6	3760762.1	199.1	3.66	2.33
2.89 YES							
L0042931	0	0.56930E-07	440779.7	3760767.1	199.1	3.66	2.33
2.89 YES							
L0042932	0	0.56930E-07	440779.7	3760772.1	199.2	3.66	2.33
2.89 YES							
L0042933	0	0.56930E-07	440779.7	3760777.1	199.3	3.66	2.33
2.89 YES							
L0042934	0	0.56930E-07	440779.7	3760782.1	199.4	3.66	2.33
2.89 YES							
L0042935	0	0.56930E-07	440779.7	3760787.1	199.5	3.66	2.33
2.89 YES							
L0042936	0	0.56930E-07	440779.8	3760792.1	199.5	3.66	2.33
2.89 YES							
L0042937	0	0.56930E-07	440779.8	3760797.1	199.5	3.66	2.33
2.89 YES							
L0042938	0	0.56930E-07	440779.8	3760802.1	199.5	3.66	2.33
2.89 YES							
L0042939	0	0.56930E-07	440779.8	3760807.1	199.5	3.66	2.33
2.89 YES							
L0042940	0	0.56930E-07	440779.8	3760812.1	199.5	3.66	2.33
2.89 YES							
L0042941	0	0.56930E-07	440779.8	3760817.1	199.5	3.66	2.33
2.89 YES							
L0042942	0	0.56930E-07	440779.9	3760822.1	199.5	3.66	2.33
2.89 YES							
L0042943	0	0.56930E-07	440779.9	3760827.1	199.5	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0042944		0	0.56930E-07	440779.9	3760832.1	199.5	3.66	2.33
2.89	YES							
L0042945		0	0.56930E-07	440779.9	3760837.1	199.5	3.66	2.33
2.89	YES							
L0042946		0	0.56930E-07	440779.9	3760842.1	199.5	3.66	2.33
2.89	YES							
L0042947		0	0.22670E-07	440779.6	3760847.3	199.5	3.66	2.33
2.89	YES							
L0042948		0	0.22670E-07	440779.6	3760852.3	199.5	3.66	2.33
2.89	YES							
L0042949		0	0.22670E-07	440779.6	3760857.3	199.5	3.66	2.33
2.89	YES							
L0042950		0	0.22670E-07	440779.6	3760862.3	199.6	3.66	2.33
2.89	YES							
L0042951		0	0.22670E-07	440779.6	3760867.3	199.6	3.66	2.33
2.89	YES							
L0042952		0	0.22670E-07	440779.6	3760872.3	199.6	3.66	2.33
2.89	YES							
L0042953		0	0.22670E-07	440779.6	3760877.3	199.7	3.66	2.33
2.89	YES							
L0042954		0	0.22670E-07	440779.6	3760882.3	199.7	3.66	2.33
2.89	YES							
L0042955		0	0.22670E-07	440779.6	3760887.3	199.7	3.66	2.33
2.89	YES							
L0042956		0	0.22670E-07	440779.6	3760892.3	199.8	3.66	2.33
2.89	YES							
L0042957		0	0.22670E-07	440779.6	3760897.3	199.8	3.66	2.33
2.89	YES							
L0042958		0	0.22670E-07	440779.6	3760902.3	199.8	3.66	2.33
2.89	YES							
L0042959		0	0.22670E-07	440779.6	3760907.3	199.9	3.66	2.33
2.89	YES							

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L0042960	0	0.22670E-07	440779.6	3760912.3	199.9	3.66	2.33
2.89	YES						
L0042961	0	0.22670E-07	440779.6	3760917.3	200.0	3.66	2.33
2.89	YES						
L0042962	0	0.22670E-07	440779.6	3760922.3	200.0	3.66	2.33
2.89	YES						
L0042963	0	0.22670E-07	440779.7	3760927.3	200.0	3.66	2.33
2.89	YES						
L0042964	0	0.22670E-07	440779.7	3760932.3	200.1	3.66	2.33
2.89	YES						
L0042965	0	0.22670E-07	440779.7	3760937.3	200.1	3.66	2.33
2.89	YES						
L0042966	0	0.22670E-07	440779.7	3760942.3	200.1	3.66	2.33
2.89	YES						
L0042967	0	0.22670E-07	440779.7	3760947.3	200.2	3.66	2.33
2.89	YES						
L0042968	0	0.22670E-07	440779.7	3760952.3	200.2	3.66	2.33
2.89	YES						
L0042969	0	0.22670E-07	440779.7	3760957.3	200.2	3.66	2.33
2.89	YES						
L0042970	0	0.22670E-07	440779.7	3760962.3	200.3	3.66	2.33
2.89	YES						
L0042971	0	0.22670E-07	440779.7	3760967.3	200.3	3.66	2.33
2.89	YES						
L0042972	0	0.22670E-07	440779.7	3760972.3	200.4	3.66	2.33
2.89	YES						
L0042973	0	0.22670E-07	440779.7	3760977.3	200.4	3.66	2.33
2.89	YES						
L0042974	0	0.22670E-07	440779.7	3760982.3	200.4	3.66	2.33
2.89	YES						
L0042975	0	0.22670E-07	440779.7	3760987.3	200.5	3.66	2.33
2.89	YES						
L0042976	0	0.22670E-07	440779.7	3760992.3	200.5	3.66	2.33
2.89	YES						
L0042977	0	0.22670E-07	440779.7	3760997.3	200.6	3.66	2.33
2.89	YES						
L0042978	0	0.22670E-07	440779.7	3761002.3	200.6	3.66	2.33
2.89	YES						
L0042979	0	0.22670E-07	440779.7	3761007.3	200.6	3.66	2.33
2.89	YES						
L0042980	0	0.22670E-07	440779.7	3761012.3	200.7	3.66	2.33
2.89	YES						
L0042981	0	0.22670E-07	440779.7	3761017.3	200.7	3.66	2.33
2.89	YES						
L0042982	0	0.22670E-07	440779.7	3761022.3	200.7	3.66	2.33
2.89	YES						
L0042983	0	0.22670E-07	440779.7	3761027.3	200.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	(GRAMS/SEC)	X	Y	(METERS)	(METERS)
(METERS)		CATS.	VARY	(METERS)	(METERS)	(METERS)	(METERS)
		BY					
L0042984		0	0.22670E-07	440779.7	3761032.3	200.8	2.33
2.89	YES						
L0042985		0	0.22670E-07	440779.7	3761037.3	200.9	2.33
2.89	YES						
L0042986		0	0.22670E-07	440779.8	3761042.3	200.9	2.33
2.89	YES						
L0042987		0	0.22670E-07	440779.8	3761047.3	200.9	2.33
2.89	YES						
L0042988		0	0.22670E-07	440779.8	3761052.3	201.0	2.33
2.89	YES						
L0042989		0	0.22670E-07	440779.8	3761057.3	201.0	2.33
2.89	YES						
L0042990		0	0.22670E-07	440779.8	3761062.3	201.1	2.33
2.89	YES						
L0042991		0	0.22670E-07	440779.8	3761067.3	201.1	2.33
2.89	YES						
L0042992		0	0.22670E-07	440779.8	3761072.3	201.1	2.33
2.89	YES						
L0042993		0	0.22670E-07	440779.8	3761077.3	201.2	2.33
2.89	YES						
L0042994		0	0.22670E-07	440779.8	3761082.3	201.2	2.33
2.89	YES						
L0042995		0	0.22670E-07	440779.8	3761087.3	201.2	2.33
2.89	YES						
L0042996		0	0.22670E-07	440779.8	3761092.3	201.3	2.33
2.89	YES						
L0042997		0	0.22670E-07	440779.8	3761097.3	201.3	2.33
2.89	YES						

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L0042998	0	0.22670E-07	440779.8	3761102.3	201.4	3.66	2.33
2.89	YES						
L0042999	0	0.22670E-07	440779.8	3761107.3	201.4	3.66	2.33
2.89	YES						
L0043000	0	0.22670E-07	440779.8	3761112.3	201.5	3.66	2.33
2.89	YES						
L0043001	0	0.22670E-07	440779.8	3761117.3	201.5	3.66	2.33
2.89	YES						
L0043002	0	0.22670E-07	440779.8	3761122.3	201.6	3.66	2.33
2.89	YES						
L0043003	0	0.22670E-07	440779.8	3761127.3	201.6	3.66	2.33
2.89	YES						
L0043004	0	0.22670E-07	440779.8	3761132.3	201.7	3.66	2.33
2.89	YES						
L0043005	0	0.22670E-07	440779.8	3761137.3	201.7	3.66	2.33
2.89	YES						
L0043006	0	0.22670E-07	440779.8	3761142.3	201.8	3.66	2.33
2.89	YES						
L0043007	0	0.67600E-08	440779.6	3761146.7	201.8	3.66	2.33
2.89	YES						
L0043008	0	0.67600E-08	440779.6	3761151.7	201.9	3.66	2.33
2.89	YES						
L0043009	0	0.67600E-08	440779.6	3761156.7	201.9	3.66	2.33
2.89	YES						
L0043010	0	0.67600E-08	440779.6	3761161.7	202.0	3.66	2.33
2.89	YES						
L0043011	0	0.67600E-08	440779.6	3761166.7	202.1	3.66	2.33
2.89	YES						
L0043012	0	0.67600E-08	440779.6	3761171.7	202.1	3.66	2.33
2.89	YES						
L0043013	0	0.67600E-08	440779.6	3761176.7	202.2	3.66	2.33
2.89	YES						
L0043014	0	0.67600E-08	440779.6	3761181.7	202.2	3.66	2.33
2.89	YES						
L0043015	0	0.67600E-08	440779.6	3761186.7	202.3	3.66	2.33
2.89	YES						
L0043016	0	0.67600E-08	440779.6	3761191.7	202.3	3.66	2.33
2.89	YES						
L0043017	0	0.67600E-08	440779.6	3761196.7	202.4	3.66	2.33
2.89	YES						
L0043018	0	0.67600E-08	440779.6	3761201.7	202.5	3.66	2.33
2.89	YES						
L0043019	0	0.67600E-08	440779.6	3761206.7	202.5	3.66	2.33
2.89	YES						
L0043020	0	0.67600E-08	440779.6	3761211.7	202.6	3.66	2.33
2.89	YES						
L0043021	0	0.67600E-08	440779.6	3761216.7	202.6	3.66	2.33
2.89	YES						



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L0043022            0    0.67600E-08   440779.6 3761221.7    202.7        3.66        2.33  
 2.89    YES  
 L0043023            0    0.67600E-08   440779.6 3761226.7    202.8        3.66        2.33  
 2.89    YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0043024	0	0.67600E-08	440779.6	3761231.7	202.9	3.66	2.33
2.89	YES						
L0043025	0	0.67600E-08	440779.6	3761236.7	203.0	3.66	2.33
2.89	YES						
L0043026	0	0.67600E-08	440779.6	3761241.7	203.1	3.66	2.33
2.89	YES						
L0043027	0	0.67600E-08	440779.5	3761246.7	203.2	3.66	2.33
2.89	YES						
L0043028	0	0.67600E-08	440779.5	3761251.7	203.2	3.66	2.33
2.89	YES						
L0043029	0	0.67600E-08	440779.5	3761256.7	203.4	3.66	2.33
2.89	YES						
L0043030	0	0.67600E-08	440779.5	3761261.7	203.4	3.66	2.33
2.89	YES						
L0043031	0	0.67600E-08	440779.5	3761266.7	203.5	3.66	2.33
2.89	YES						
L0043032	0	0.68180E-08	440781.7	3761269.2	203.6	3.66	2.33
2.89	YES						
L0043033	0	0.68180E-08	440786.7	3761269.2	203.6	3.66	2.33
2.89	YES						
L0043034	0	0.68180E-08	440791.7	3761269.1	203.6	3.66	2.33
2.89	YES						
L0043035	0	0.68180E-08	440796.7	3761269.1	203.6	3.66	2.33
2.89	YES						

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L0043036	0	0.68180E-08	440801.7	3761269.1	203.6	3.66	2.33
2.89 YES							
L0043037	0	0.68180E-08	440806.7	3761269.0	203.6	3.66	2.33
2.89 YES							
L0043038	0	0.68180E-08	440811.7	3761269.0	203.6	3.66	2.33
2.89 YES							
L0043039	0	0.68180E-08	440816.7	3761269.0	203.6	3.66	2.33
2.89 YES							
L0043040	0	0.68180E-08	440821.7	3761268.9	203.7	3.66	2.33
2.89 YES							
L0043041	0	0.68180E-08	440826.7	3761268.9	203.7	3.66	2.33
2.89 YES							
L0043042	0	0.68180E-08	440831.7	3761268.8	203.7	3.66	2.33
2.89 YES							
L0043043	0	0.68180E-08	440836.7	3761268.8	203.8	3.66	2.33
2.89 YES							
L0043044	0	0.68180E-08	440841.7	3761268.8	203.8	3.66	2.33
2.89 YES							
L0043045	0	0.68180E-08	440846.7	3761268.7	203.9	3.66	2.33
2.89 YES							
L0043046	0	0.68180E-08	440851.7	3761268.7	203.9	3.66	2.33
2.89 YES							
L0043047	0	0.68180E-08	440856.7	3761268.7	203.9	3.66	2.33
2.89 YES							
L0043048	0	0.68180E-08	440861.7	3761268.6	203.9	3.66	2.33
2.89 YES							
L0043049	0	0.68180E-08	440866.7	3761268.6	203.9	3.66	2.33
2.89 YES							
L0043050	0	0.68180E-08	440871.7	3761268.6	204.0	3.66	2.33
2.89 YES							
L0043051	0	0.68180E-08	440876.7	3761268.5	204.0	3.66	2.33
2.89 YES							
L0043052	0	0.68180E-08	440881.7	3761268.5	204.0	3.66	2.33
2.89 YES							
L0043053	0	0.68180E-08	440886.7	3761268.4	204.0	3.66	2.33
2.89 YES							
L0043054	0	0.68180E-08	440891.7	3761268.4	204.0	3.66	2.33
2.89 YES							
L0043055	0	0.68180E-08	440896.7	3761268.4	204.0	3.66	2.33
2.89 YES							
L0043056	0	0.68180E-08	440901.7	3761268.3	204.0	3.66	2.33
2.89 YES							
L0043057	0	0.68180E-08	440906.7	3761268.3	204.0	3.66	2.33
2.89 YES							
L0043058	0	0.68180E-08	440911.7	3761268.3	204.1	3.66	2.33
2.89 YES							
L0043059	0	0.68180E-08	440916.7	3761268.2	204.1	3.66	2.33
2.89 YES							

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L0043060	0	0.68180E-08	440921.7	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043061	0	0.68180E-08	440926.7	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043062	0	0.68180E-08	440931.7	3761268.1	204.1	3.66	2.33
2.89	YES						
L0043063	0	0.68180E-08	440936.7	3761268.1	204.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0043064	0	0.68180E-08	440941.7	3761268.0	204.1	3.66	2.33
2.89	YES						
L0043065	0	0.69180E-08	440945.1	3761268.1	204.1	3.66	2.33
2.89	YES						
L0043066	0	0.69180E-08	440950.1	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043067	0	0.69180E-08	440955.1	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043068	0	0.69180E-08	440960.1	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043069	0	0.69180E-08	440965.1	3761268.2	204.1	3.66	2.33
2.89	YES						
L0043070	0	0.69180E-08	440970.1	3761268.3	204.1	3.66	2.33
2.89	YES						
L0043071	0	0.69180E-08	440975.1	3761268.3	204.1	3.66	2.33
2.89	YES						
L0043072	0	0.69180E-08	440980.1	3761268.3	204.1	3.66	2.33
2.89	YES						
L0043073	0	0.69180E-08	440985.1	3761268.3	204.1	3.66	2.33
2.89	YES						

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L0043074	0	0.69180E-08	440990.1	3761268.4	204.2	3.66	2.33
2.89	YES						
L0043075	0	0.69180E-08	440995.1	3761268.4	204.2	3.66	2.33
2.89	YES						
L0043076	0	0.69180E-08	441000.1	3761268.4	204.2	3.66	2.33
2.89	YES						
L0043077	0	0.69180E-08	441005.1	3761268.5	204.2	3.66	2.33
2.89	YES						
L0043078	0	0.69180E-08	441010.1	3761268.5	204.2	3.66	2.33
2.89	YES						
L0043079	0	0.69180E-08	441015.1	3761268.5	204.2	3.66	2.33
2.89	YES						
L0043080	0	0.69180E-08	441020.1	3761268.5	204.2	3.66	2.33
2.89	YES						
L0043081	0	0.69180E-08	441025.1	3761268.6	204.2	3.66	2.33
2.89	YES						
L0043082	0	0.69180E-08	441030.1	3761268.6	204.2	3.66	2.33
2.89	YES						
L0043083	0	0.69180E-08	441035.1	3761268.6	204.2	3.66	2.33
2.89	YES						
L0043084	0	0.69180E-08	441040.1	3761268.6	204.2	3.66	2.33
2.89	YES						
L0043085	0	0.69180E-08	441045.1	3761268.7	204.2	3.66	2.33
2.89	YES						
L0043086	0	0.69180E-08	441050.1	3761268.7	204.1	3.66	2.33
2.89	YES						
L0043087	0	0.69180E-08	441055.1	3761268.7	204.1	3.66	2.33
2.89	YES						
L0043088	0	0.69180E-08	441060.1	3761268.8	204.1	3.66	2.33
2.89	YES						
L0043089	0	0.69180E-08	441065.1	3761268.8	204.1	3.66	2.33
2.89	YES						
L0043090	0	0.69180E-08	441070.1	3761268.8	204.1	3.66	2.33
2.89	YES						
L0043091	0	0.69180E-08	441075.1	3761268.8	204.1	3.66	2.33
2.89	YES						
L0043092	0	0.69180E-08	441080.1	3761268.9	204.0	3.66	2.33
2.89	YES						
L0043093	0	0.69180E-08	441085.1	3761268.9	204.0	3.66	2.33
2.89	YES						
L0043094	0	0.69180E-08	441090.1	3761268.9	204.0	3.66	2.33
2.89	YES						
L0043095	0	0.69180E-08	441095.1	3761268.9	204.0	3.66	2.33
2.89	YES						
L0043096	0	0.69180E-08	441100.1	3761269.0	204.0	3.66	2.33
2.89	YES						
L0043097	0	0.69180E-08	441105.1	3761269.0	204.0	3.66	2.33
2.89	YES						

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L0043098	0	0.69180E-08	441110.1	3761269.0	204.0	3.66	2.33
2.89	YES						
L0043099	0	0.69180E-08	441115.1	3761269.0	204.0	3.66	2.33
2.89	YES						
L0043100	0	0.69180E-08	441120.1	3761269.1	204.0	3.66	2.33
2.89	YES						
L0043101	0	0.69180E-08	441125.1	3761269.1	204.0	3.66	2.33
2.89	YES						
L0043102	0	0.69180E-08	441130.1	3761269.1	204.1	3.66	2.33
2.89	YES						
L0043103	0	0.69180E-08	441135.1	3761269.2	204.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0043104	0	0.69180E-08	441140.1	3761269.2	204.1	3.66	2.33	
2.89	YES							
L0043105	0	0.69180E-08	441145.1	3761269.2	204.1	3.66	2.33	
2.89	YES							
L0043106	0	0.69180E-08	441150.1	3761269.2	204.1	3.66	2.33	
2.89	YES							
L0043107	0	0.69180E-08	441155.1	3761269.3	204.1	3.66	2.33	
2.89	YES							
L0043108	0	0.69180E-08	441160.1	3761269.3	204.1	3.66	2.33	
2.89	YES							
L0043109	0	0.69180E-08	441165.1	3761269.3	204.1	3.66	2.33	
2.89	YES							
L0043110	0	0.69180E-08	441170.1	3761269.3	204.1	3.66	2.33	
2.89	YES							
L0043111	0	0.69180E-08	441175.1	3761269.4	204.1	3.66	2.33	
2.89	YES							

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L0043112	0	0.69180E-08	441180.1	3761269.4	204.0	3.66	2.33
2.89	YES						
L0043113	0	0.69180E-08	441185.1	3761269.4	204.0	3.66	2.33
2.89	YES						
L0043114	0	0.16640E-08	441184.0	3761151.7	203.0	3.66	2.33
2.89	YES						
L0043115	0	0.16640E-08	441179.0	3761151.8	203.0	3.66	2.33
2.89	YES						
L0043116	0	0.16640E-08	441174.0	3761151.9	202.9	3.66	2.33
2.89	YES						
L0043117	0	0.16640E-08	441169.0	3761152.0	202.9	3.66	2.33
2.89	YES						
L0043118	0	0.16640E-08	441164.0	3761152.2	202.8	3.66	2.33
2.89	YES						
L0043119	0	0.16640E-08	441159.0	3761152.3	202.8	3.66	2.33
2.89	YES						
L0043120	0	0.16640E-08	441154.0	3761152.4	202.8	3.66	2.33
2.89	YES						
L0043121	0	0.16640E-08	441149.0	3761152.5	202.9	3.66	2.33
2.89	YES						
L0043122	0	0.16640E-08	441144.0	3761152.7	202.9	3.66	2.33
2.89	YES						
L0043123	0	0.16640E-08	441139.0	3761152.8	202.9	3.66	2.33
2.89	YES						
L0043124	0	0.16640E-08	441134.0	3761152.9	202.9	3.66	2.33
2.89	YES						
L0043125	0	0.12800E-07	440943.4	3761264.7	204.1	3.66	2.33
2.89	YES						
L0043126	0	0.12800E-07	440943.5	3761259.7	204.1	3.66	2.33
2.89	YES						
L0043127	0	0.12800E-07	440943.5	3761254.7	204.1	3.66	2.33
2.89	YES						
L0043128	0	0.12800E-07	440943.6	3761249.7	204.1	3.66	2.33
2.89	YES						
L0043129	0	0.12800E-07	440943.6	3761244.7	204.1	3.66	2.33
2.89	YES						
L0043130	0	0.12800E-07	440943.7	3761239.7	204.1	3.66	2.33
2.89	YES						
L0043131	0	0.12800E-07	440943.7	3761234.7	204.1	3.66	2.33
2.89	YES						
L0043132	0	0.17000E-07	440784.7	3761145.5	201.9	3.66	2.33
2.89	YES						
L0043133	0	0.17000E-07	440789.7	3761145.4	201.9	3.66	2.33
2.89	YES						
L0043134	0	0.17000E-07	440794.7	3761145.4	202.0	3.66	2.33
2.89	YES						
L0043135	0	0.17000E-07	440799.7	3761145.4	202.0	3.66	2.33
2.89	YES						

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L0043136	0	0.17000E-07	440804.7	3761145.3	202.1	3.66	2.33
2.89	YES						
L0043137	0	0.17000E-07	440809.7	3761145.3	202.2	3.66	2.33
2.89	YES						
L0043138	0	0.32250E-07	440784.6	3760845.5	199.5	3.66	2.33
2.89	YES						
L0043139	0	0.32250E-07	440789.6	3760845.5	199.5	3.66	2.33
2.89	YES						
L0043140	0	0.32250E-07	440794.6	3760845.4	199.6	3.66	2.33
2.89	YES						
L0043141	0	0.32250E-07	440799.6	3760845.4	199.6	3.66	2.33
2.89	YES						
L0043142	0	0.32250E-07	440804.6	3760845.4	199.6	3.66	2.33
2.89	YES						
L0043143	0	0.32250E-07	440809.6	3760845.3	199.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY						
L0043144	0	0.32250E-07	440814.6	3760845.3	199.7	3.66	2.33		
2.89	YES								
L0043145	0	0.32250E-07	440819.6	3760845.3	199.7	3.66	2.33		
2.89	YES								
L0043146	0	0.68590E-07	441213.3	3761143.1	203.4	3.66	2.33		
2.89	YES								
L0043147	0	0.68590E-07	441218.3	3761143.1	203.5	3.66	2.33		
2.89	YES								
L0043148	0	0.68590E-07	441223.3	3761143.1	203.5	3.66	2.33		
2.89	YES								
L0043149	0	0.68590E-07	441228.3	3761143.1	203.5	3.66	2.33		
2.89	YES								

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L0043150	0	0.68590E-07	441233.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043151	0	0.68590E-07	441238.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043152	0	0.68590E-07	441243.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043153	0	0.68590E-07	441248.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043154	0	0.68590E-07	441253.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043155	0	0.68590E-07	441258.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043156	0	0.68590E-07	441263.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043157	0	0.68590E-07	441268.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043158	0	0.68590E-07	441273.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043159	0	0.68590E-07	441278.3	3761143.0	203.5	3.66	2.33
2.89	YES						
L0043160	0	0.68590E-07	441283.3	3761142.9	203.5	3.66	2.33
2.89	YES						
L0043161	0	0.68590E-07	441288.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043162	0	0.68590E-07	441293.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043163	0	0.68590E-07	441298.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043164	0	0.68590E-07	441303.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043165	0	0.68590E-07	441308.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043166	0	0.68590E-07	441313.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043167	0	0.68590E-07	441318.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043168	0	0.68590E-07	441323.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043169	0	0.68590E-07	441328.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043170	0	0.68590E-07	441333.3	3761142.9	203.6	3.66	2.33
2.89	YES						
L0043171	0	0.68590E-07	441338.3	3761142.8	203.6	3.66	2.33
2.89	YES						
L0043172	0	0.68590E-07	441343.3	3761142.8	203.6	3.66	2.33
2.89	YES						
L0043173	0	0.68590E-07	441348.3	3761142.8	203.6	3.66	2.33
2.89	YES						



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L0043174	0	0.68590E-07	441353.3	3761142.8	203.6	3.66	2.33
2.89	YES						
L0043175	0	0.68590E-07	441358.3	3761142.8	203.6	3.66	2.33
2.89	YES						
L0043176	0	0.68590E-07	441363.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043177	0	0.68590E-07	441368.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043178	0	0.68590E-07	441373.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043179	0	0.68590E-07	441378.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043180	0	0.68590E-07	441383.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043181	0	0.68590E-07	441388.3	3761142.8	203.7	3.66	2.33
2.89	YES						
L0043182	0	0.68590E-07	441393.3	3761142.7	203.7	3.66	2.33
2.89	YES						
L0043183	0	0.68590E-07	441398.3	3761142.7	203.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0043184	0	0.68590E-07	441403.3	3761142.7	203.6	3.66	2.33
2.89	YES						
L0043185	0	0.68590E-07	441408.3	3761142.7	203.6	3.66	2.33
2.89	YES						
L0043186	0	0.68590E-07	441413.3	3761142.7	203.6	3.66	2.33
2.89	YES						
L0043187	0	0.68590E-07	441418.3	3761142.7	203.6	3.66	2.33
2.89	YES						

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L0043188	0	0.68590E-07	441423.3	3761142.7	203.6	3.66	2.33
2.89 YES							
L0043189	0	0.68590E-07	441428.3	3761142.7	203.6	3.66	2.33
2.89 YES							
L0043190	0	0.68590E-07	441433.3	3761142.7	203.6	3.66	2.33
2.89 YES							
L0043191	0	0.68590E-07	441438.3	3761142.7	203.6	3.66	2.33
2.89 YES							
L0043192	0	0.68590E-07	441443.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043193	0	0.68590E-07	441448.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043194	0	0.68590E-07	441453.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043195	0	0.68590E-07	441458.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043196	0	0.68590E-07	441463.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043197	0	0.68590E-07	441468.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043198	0	0.68590E-07	441473.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043199	0	0.68590E-07	441478.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043200	0	0.68590E-07	441483.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043201	0	0.68590E-07	441488.3	3761142.6	203.6	3.66	2.33
2.89 YES							
L0043202	0	0.68590E-07	441493.3	3761142.5	203.6	3.66	2.33
2.89 YES							
L0043203	0	0.68590E-07	441498.3	3761142.5	203.6	3.66	2.33
2.89 YES							
L0043204	0	0.68590E-07	441503.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043205	0	0.68590E-07	441508.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043206	0	0.68590E-07	441513.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043207	0	0.68590E-07	441518.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043208	0	0.68590E-07	441523.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043209	0	0.68590E-07	441528.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043210	0	0.68590E-07	441533.3	3761142.5	203.7	3.66	2.33
2.89 YES							
L0043211	0	0.68590E-07	441538.3	3761142.5	203.7	3.66	2.33
2.89 YES							

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L0043212	0	0.68590E-07	441543.3	3761142.5	203.7	3.66	2.33
2.89	YES						
L0043213	0	0.68590E-07	441548.3	3761142.4	203.8	3.66	2.33
2.89	YES						
L0043214	0	0.68590E-07	441553.3	3761142.4	203.8	3.66	2.33
2.89	YES						
L0043215	0	0.68590E-07	441558.3	3761142.4	203.9	3.66	2.33
2.89	YES						
L0043216	0	0.68590E-07	441563.3	3761142.4	203.9	3.66	2.33
2.89	YES						
L0043217	0	0.68590E-07	441568.3	3761142.4	203.9	3.66	2.33
2.89	YES						
L0043218	0	0.68590E-07	441573.3	3761142.4	204.0	3.66	2.33
2.89	YES						
L0043219	0	0.68590E-07	441578.3	3761142.4	204.0	3.66	2.33
2.89	YES						
L0043220	0	0.68590E-07	441583.3	3761142.4	204.1	3.66	2.33
2.89	YES						
L0043221	0	0.68590E-07	441588.3	3761142.4	204.1	3.66	2.33
2.89	YES						
L0043222	0	0.68590E-07	441593.3	3761142.4	204.2	3.66	2.33
2.89	YES						
L0043223	0	0.68590E-07	441598.3	3761142.3	204.2	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0043224	0	0.68590E-07	441603.3	3761142.3	204.3	3.66	2.33	
2.89	YES							
L0043225	0	0.68590E-07	441608.3	3761142.3	204.4	3.66	2.33	
2.89	YES							

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L0043226	0	0.68590E-07	441613.3	3761142.3	204.4	3.66	2.33
2.89	YES						
L0043227	0	0.68590E-07	441618.3	3761142.3	204.5	3.66	2.33
2.89	YES						
L0043228	0	0.68590E-07	441623.3	3761142.3	204.5	3.66	2.33
2.89	YES						
L0043229	0	0.68590E-07	441628.3	3761142.3	204.5	3.66	2.33
2.89	YES						
L0043230	0	0.68590E-07	441633.3	3761142.3	204.4	3.66	2.33
2.89	YES						
L0043231	0	0.68590E-07	441638.3	3761142.3	204.4	3.66	2.33
2.89	YES						
L0043232	0	0.68590E-07	441643.3	3761142.3	204.3	3.66	2.33
2.89	YES						
L0043233	0	0.68590E-07	441648.3	3761142.3	204.3	3.66	2.33
2.89	YES						
L0043234	0	0.68590E-07	441653.3	3761142.2	204.2	3.66	2.33
2.89	YES						
L0043235	0	0.68590E-07	441658.3	3761142.2	204.2	3.66	2.33
2.89	YES						
L0043236	0	0.68590E-07	441663.3	3761142.2	204.1	3.66	2.33
2.89	YES						
L0043237	0	0.68590E-07	441668.3	3761142.2	204.0	3.66	2.33
2.89	YES						
L0043238	0	0.68590E-07	441673.3	3761142.2	204.0	3.66	2.33
2.89	YES						
L0043239	0	0.68590E-07	441678.3	3761142.2	203.9	3.66	2.33
2.89	YES						
L0043240	0	0.68590E-07	441683.3	3761142.2	203.9	3.66	2.33
2.89	YES						
L0043241	0	0.68590E-07	441688.3	3761142.2	203.8	3.66	2.33
2.89	YES						
L0043242	0	0.68590E-07	441693.3	3761142.2	203.8	3.66	2.33
2.89	YES						
L0043243	0	0.68590E-07	441698.3	3761142.2	203.7	3.66	2.33
2.89	YES						
L0043244	0	0.68590E-07	441703.3	3761142.1	203.8	3.66	2.33
2.89	YES						
L0043245	0	0.68590E-07	441708.3	3761142.1	203.8	3.66	2.33
2.89	YES						
L0043246	0	0.68590E-07	441713.3	3761142.1	203.8	3.66	2.33
2.89	YES						
L0043247	0	0.68590E-07	441718.3	3761142.1	203.9	3.66	2.33
2.89	YES						
L0043248	0	0.68590E-07	441723.3	3761142.1	203.9	3.66	2.33
2.89	YES						
L0043249	0	0.68590E-07	441728.3	3761142.1	204.0	3.66	2.33
2.89	YES						

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L0043250	0	0.68590E-07	441733.3	3761142.1	204.1	3.66	2.33
2.89	YES						
L0043251	0	0.68590E-07	441738.3	3761142.1	204.2	3.66	2.33
2.89	YES						
L0043252	0	0.68590E-07	441743.3	3761142.1	204.2	3.66	2.33
2.89	YES						
L0043253	0	0.68590E-07	441748.3	3761142.1	204.3	3.66	2.33
2.89	YES						
L0043254	0	0.68590E-07	441753.3	3761142.1	204.4	3.66	2.33
2.89	YES						
L0043255	0	0.68590E-07	441758.3	3761142.0	204.4	3.66	2.33
2.89	YES						
L0043256	0	0.68590E-07	441763.3	3761142.0	204.4	3.66	2.33
2.89	YES						
L0043257	0	0.68590E-07	441768.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043258	0	0.68590E-07	441773.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043259	0	0.68590E-07	441778.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043260	0	0.68590E-07	441783.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043261	0	0.68590E-07	441788.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043262	0	0.68590E-07	441793.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043263	0	0.68590E-07	441798.3	3761142.0	204.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

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L0043264	0	0.68590E-07	441803.3	3761142.0	204.5	3.66	2.33
2.89	YES						
L0043265	0	0.68590E-07	441808.3	3761141.9	204.5	3.66	2.33
2.89	YES						
L0043266	0	0.68590E-07	441813.3	3761141.9	204.4	3.66	2.33
2.89	YES						
L0043267	0	0.68590E-07	441818.3	3761141.9	204.4	3.66	2.33
2.89	YES						
L0043268	0	0.68590E-07	441823.3	3761141.9	204.3	3.66	2.33
2.89	YES						
L0043269	0	0.68590E-07	441828.3	3761141.9	204.3	3.66	2.33
2.89	YES						
L0043270	0	0.68590E-07	441833.3	3761141.9	204.2	3.66	2.33
2.89	YES						
L0043271	0	0.68590E-07	441838.3	3761141.9	204.1	3.66	2.33
2.89	YES						
L0043272	0	0.68590E-07	441843.3	3761141.9	204.1	3.66	2.33
2.89	YES						
L0043273	0	0.68590E-07	441848.3	3761141.9	204.0	3.66	2.33
2.89	YES						
L0043274	0	0.68590E-07	441853.3	3761141.9	203.9	3.66	2.33
2.89	YES						
L0043275	0	0.68590E-07	441858.3	3761141.9	203.9	3.66	2.33
2.89	YES						
L0043276	0	0.68590E-07	441863.3	3761141.8	203.9	3.66	2.33
2.89	YES						
L0043277	0	0.68590E-07	441868.3	3761141.8	203.8	3.66	2.33
2.89	YES						
L0043278	0	0.68590E-07	441873.3	3761141.8	203.8	3.66	2.33
2.89	YES						
L0043279	0	0.68590E-07	441878.3	3761141.8	203.8	3.66	2.33
2.89	YES						
L0043280	0	0.68590E-07	441883.3	3761141.8	203.8	3.66	2.33
2.89	YES						
L0043281	0	0.68590E-07	441888.3	3761141.8	203.9	3.66	2.33
2.89	YES						
L0043282	0	0.68590E-07	441893.3	3761141.8	204.0	3.66	2.33
2.89	YES						
L0043283	0	0.68590E-07	441898.3	3761141.8	204.0	3.66	2.33
2.89	YES						
L0043284	0	0.68590E-07	441903.3	3761141.8	204.1	3.66	2.33
2.89	YES						
L0043285	0	0.68590E-07	441908.3	3761141.8	204.2	3.66	2.33
2.89	YES						
L0043286	0	0.68590E-07	441913.3	3761141.8	204.3	3.66	2.33
2.89	YES						
L0043287	0	0.68590E-07	441918.3	3761141.7	204.5	3.66	2.33
2.89	YES						

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L0043288	0	0.68590E-07	441923.3	3761141.7	204.6	3.66	2.33
2.89	YES						
L0043289	0	0.68590E-07	441928.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043290	0	0.68590E-07	441933.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043291	0	0.68590E-07	441938.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043292	0	0.68590E-07	441943.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043293	0	0.68590E-07	441948.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043294	0	0.68590E-07	441953.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043295	0	0.68590E-07	441958.3	3761141.7	204.7	3.66	2.33
2.89	YES						
L0043296	0	0.68590E-07	441963.3	3761141.7	204.6	3.66	2.33
2.89	YES						
L0043297	0	0.68590E-07	441968.3	3761141.6	204.5	3.66	2.33
2.89	YES						
L0043298	0	0.68590E-07	441973.3	3761141.6	204.4	3.66	2.33
2.89	YES						
L0043299	0	0.68590E-07	441978.3	3761141.6	204.4	3.66	2.33
2.89	YES						
L0043300	0	0.68590E-07	441983.3	3761141.6	204.3	3.66	2.33
2.89	YES						
L0043301	0	0.68590E-07	441988.3	3761141.6	204.3	3.66	2.33
2.89	YES						
L0043302	0	0.59210E-07	441236.4	3761136.9	203.5	3.66	2.33
2.89	YES						
L0043303	0	0.59210E-07	441236.4	3761131.9	203.5	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)
		PART.	(GRAMS/SEC)	X	Y		
		CATS.		(METERS)	(METERS)	(METERS)	(METERS)

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(METERS)

BY

L0043304	0	0.59210E-07	441236.4	3761126.9	203.4	3.66	2.33
2.89 YES							
L0043305	0	0.59210E-07	441236.3	3761121.9	203.4	3.66	2.33
2.89 YES							
L0043306	0	0.59210E-07	441236.3	3761116.9	203.4	3.66	2.33
2.89 YES							
L0043307	0	0.59210E-07	441236.2	3761111.9	203.3	3.66	2.33
2.89 YES							
L0043308	0	0.59210E-07	441236.2	3761106.9	203.3	3.66	2.33
2.89 YES							
L0043309	0	0.59210E-07	441236.2	3761101.9	203.3	3.66	2.33
2.89 YES							
L0043310	0	0.59210E-07	441236.1	3761096.9	203.2	3.66	2.33
2.89 YES							
L0043311	0	0.59210E-07	441236.1	3761091.9	203.2	3.66	2.33
2.89 YES							
L0043312	0	0.59210E-07	441236.1	3761086.9	203.2	3.66	2.33
2.89 YES							
L0043313	0	0.59210E-07	441236.0	3761081.9	203.2	3.66	2.33
2.89 YES							
L0043314	0	0.59210E-07	441236.0	3761076.9	203.1	3.66	2.33
2.89 YES							
L0043315	0	0.59210E-07	441235.9	3761071.9	203.1	3.66	2.33
2.89 YES							
L0043316	0	0.59210E-07	441235.9	3761066.9	203.1	3.66	2.33
2.89 YES							
L0043317	0	0.59210E-07	441235.9	3761061.9	203.0	3.66	2.33
2.89 YES							
L0043318	0	0.59210E-07	441235.8	3761056.9	203.0	3.66	2.33
2.89 YES							
L0043319	0	0.59210E-07	441235.8	3761051.9	203.0	3.66	2.33
2.89 YES							
L0043320	0	0.59210E-07	441235.7	3761046.9	202.9	3.66	2.33
2.89 YES							
L0043321	0	0.59210E-07	441235.7	3761041.9	202.9	3.66	2.33
2.89 YES							
L0043322	0	0.59210E-07	441235.7	3761036.9	202.9	3.66	2.33
2.89 YES							
L0043323	0	0.59210E-07	441235.6	3761031.9	202.8	3.66	2.33
2.89 YES							
L0043324	0	0.59210E-07	441235.6	3761026.9	202.8	3.66	2.33
2.89 YES							
L0043325	0	0.59210E-07	441235.5	3761021.9	202.8	3.66	2.33
2.89 YES							



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L0043326	0	0.59210E-07	441235.5	3761016.9	202.8	3.66	2.33
2.89 YES							
L0043327	0	0.59210E-07	441235.5	3761011.9	202.7	3.66	2.33
2.89 YES							
L0043328	0	0.59210E-07	441235.4	3761006.9	202.7	3.66	2.33
2.89 YES							
L0043329	0	0.59210E-07	441235.4	3761001.9	202.7	3.66	2.33
2.89 YES							
L0043330	0	0.59210E-07	441235.3	3760996.9	202.6	3.66	2.33
2.89 YES							
L0043331	0	0.59210E-07	441235.3	3760991.9	202.6	3.66	2.33
2.89 YES							
L0043332	0	0.59210E-07	441235.3	3760986.9	202.6	3.66	2.33
2.89 YES							
L0043333	0	0.59210E-07	441235.2	3760981.9	202.5	3.66	2.33
2.89 YES							
L0043334	0	0.59210E-07	441235.2	3760976.9	202.5	3.66	2.33
2.89 YES							
L0043335	0	0.59210E-07	441235.1	3760971.9	202.5	3.66	2.33
2.89 YES							
L0043336	0	0.59210E-07	441235.1	3760966.9	202.4	3.66	2.33
2.89 YES							
L0043337	0	0.59210E-07	441235.1	3760961.9	202.4	3.66	2.33
2.89 YES							
L0043338	0	0.59210E-07	441235.0	3760956.9	202.4	3.66	2.33
2.89 YES							
L0043339	0	0.59210E-07	441235.0	3760951.9	202.3	3.66	2.33
2.89 YES							
L0043340	0	0.59210E-07	441234.9	3760946.9	202.3	3.66	2.33
2.89 YES							
L0043341	0	0.59210E-07	441234.9	3760941.9	202.3	3.66	2.33
2.89 YES							
L0043342	0	0.59210E-07	441234.9	3760936.9	202.2	3.66	2.33
2.89 YES							
L0043343	0	0.59210E-07	441234.8	3760931.9	202.2	3.66	2.33
2.89 YES							

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.

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INIT. SZ	URBAN SOURCE ID (METERS)	EMISSION RATE PART. (GRAMS/SEC) SCALAR VARY CATS. BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
2.89	YES	0 0.59210E-07	441234.8	3760926.9	202.2	3.66	2.33
2.89	YES	0 0.59210E-07	441234.7	3760921.9	202.1	3.66	2.33
2.89	YES	0 0.59210E-07	441234.7	3760916.9	202.1	3.66	2.33
2.89	YES	0 0.59210E-07	441234.7	3760911.9	202.1	3.66	2.33
2.89	YES	0 0.59210E-07	441234.6	3760906.9	202.1	3.66	2.33
2.89	YES	0 0.59210E-07	441234.6	3760901.9	202.0	3.66	2.33
2.89	YES	0 0.59210E-07	441234.6	3760896.9	202.0	3.66	2.33
2.89	YES	0 0.59210E-07	441234.5	3760891.9	202.0	3.66	2.33
2.89	YES	0 0.59210E-07	441234.5	3760886.9	201.9	3.66	2.33
2.89	YES	0 0.59210E-07	441234.4	3760881.9	201.9	3.66	2.33
2.89	YES	0 0.59210E-07	441234.4	3760876.9	201.9	3.66	2.33
2.89	YES	0 0.59210E-07	441234.4	3760871.9	201.9	3.66	2.33
2.89	YES	0 0.59210E-07	441234.3	3760866.9	201.8	3.66	2.33
2.89	YES	0 0.59210E-07	441234.3	3760861.9	201.8	3.66	2.33
2.89	YES	0 0.59210E-07	441234.2	3760856.9	201.8	3.66	2.33
2.89	YES	0 0.59210E-07	441234.2	3760851.9	201.7	3.66	2.33
2.89	YES	0 0.59210E-07	441234.2	3760846.9	201.7	3.66	2.33
2.89	YES	0 0.59210E-07	441234.1	3760841.9	201.7	3.66	2.33
2.89	YES	0 0.59210E-07	441234.1	3760836.9	201.6	3.66	2.33
2.89	YES	0 0.59210E-07	441234.0	3760831.9	201.6	3.66	2.33

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L0043364	0	0.59210E-07	441234.0	3760826.9	201.6	3.66	2.33
2.89	YES						
L0043365	0	0.59210E-07	441234.0	3760821.9	201.5	3.66	2.33
2.89	YES						
L0043366	0	0.59210E-07	441233.9	3760816.9	201.5	3.66	2.33
2.89	YES						
L0043367	0	0.59210E-07	441233.9	3760811.9	201.5	3.66	2.33
2.89	YES						
L0043368	0	0.59210E-07	441233.8	3760806.9	201.4	3.66	2.33
2.89	YES						
L0043369	0	0.59210E-07	441233.8	3760801.9	201.4	3.66	2.33
2.89	YES						
L0043370	0	0.59210E-07	441233.8	3760796.9	201.4	3.66	2.33
2.89	YES						
L0043371	0	0.59210E-07	441233.7	3760791.9	201.4	3.66	2.33
2.89	YES						
L0043372	0	0.59210E-07	441233.7	3760786.9	201.3	3.66	2.33
2.89	YES						
L0043373	0	0.59210E-07	441233.6	3760781.9	201.3	3.66	2.33
2.89	YES						
L0043374	0	0.59210E-07	441233.6	3760776.9	201.3	3.66	2.33
2.89	YES						
L0043375	0	0.59210E-07	441233.6	3760771.9	201.2	3.66	2.33
2.89	YES						
L0043376	0	0.59210E-07	441233.5	3760766.9	201.2	3.66	2.33
2.89	YES						
L0043377	0	0.59210E-07	441233.5	3760761.9	201.2	3.66	2.33
2.89	YES						
L0043378	0	0.59210E-07	441233.4	3760756.9	201.1	3.66	2.33
2.89	YES						
L0043379	0	0.59210E-07	441233.4	3760751.9	201.1	3.66	2.33
2.89	YES						
L0043380	0	0.59210E-07	441233.4	3760746.9	201.1	3.66	2.33
2.89	YES						
L0043381	0	0.59210E-07	441233.3	3760741.9	201.1	3.66	2.33
2.89	YES						
L0043382	0	0.59210E-07	441233.3	3760736.9	201.0	3.66	2.33
2.89	YES						
L0043383	0	0.59210E-07	441233.2	3760731.9	201.0	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0043384	0	0.59210E-07	441233.2	3760726.9	201.0	3.66	2.33	
2.89	YES							
L0043385	0	0.59210E-07	441233.2	3760721.9	200.9	3.66	2.33	
2.89	YES							
L0043386	0	0.59210E-07	441233.1	3760716.9	200.9	3.66	2.33	
2.89	YES							
L0043387	0	0.59210E-07	441233.1	3760711.9	200.9	3.66	2.33	
2.89	YES							
L0043388	0	0.59210E-07	441233.1	3760706.9	200.8	3.66	2.33	
2.89	YES							
L0043389	0	0.59210E-07	441233.0	3760701.9	200.8	3.66	2.33	
2.89	YES							
L0043390	0	0.59210E-07	441233.0	3760696.9	200.8	3.66	2.33	
2.89	YES							
L0043391	0	0.59210E-07	441232.9	3760691.9	200.7	3.66	2.33	
2.89	YES							
L0043392	0	0.59210E-07	441232.9	3760686.9	200.7	3.66	2.33	
2.89	YES							
L0043393	0	0.59210E-07	441232.9	3760681.9	200.7	3.66	2.33	
2.89	YES							
L0043394	0	0.59210E-07	441232.8	3760676.9	200.6	3.66	2.33	
2.89	YES							
L0043395	0	0.59210E-07	441232.8	3760671.9	200.6	3.66	2.33	
2.89	YES							
L0043396	0	0.59210E-07	441232.7	3760666.9	200.6	3.66	2.33	
2.89	YES							
L0043397	0	0.59210E-07	441232.7	3760661.9	200.6	3.66	2.33	
2.89	YES							
L0043398	0	0.59210E-07	441232.7	3760656.9	200.5	3.66	2.33	
2.89	YES							
L0043399	0	0.59210E-07	441232.6	3760651.9	200.5	3.66	2.33	
2.89	YES							
L0043400	0	0.59210E-07	441232.6	3760646.9	200.5	3.66	2.33	
2.89	YES							
L0043401	0	0.59210E-07	441232.5	3760641.9	200.4	3.66	2.33	
2.89	YES							

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L0043402	0	0.59210E-07	441232.5	3760636.9	200.4	3.66	2.33
2.89	YES						
L0043403	0	0.59210E-07	441232.5	3760631.9	200.4	3.66	2.33
2.89	YES						
L0043404	0	0.59210E-07	441232.4	3760626.9	200.3	3.66	2.33
2.89	YES						
L0043405	0	0.59210E-07	441232.4	3760621.9	200.3	3.66	2.33
2.89	YES						
L0043406	0	0.59210E-07	441232.3	3760616.9	200.3	3.66	2.33
2.89	YES						
L0043407	0	0.59210E-07	441232.3	3760611.9	200.3	3.66	2.33
2.89	YES						
L0043408	0	0.59210E-07	441232.3	3760606.9	200.2	3.66	2.33
2.89	YES						
L0043409	0	0.59210E-07	441232.2	3760601.9	200.2	3.66	2.33
2.89	YES						
L0043410	0	0.59210E-07	441232.2	3760596.9	200.2	3.66	2.33
2.89	YES						
L0043411	0	0.59210E-07	441232.1	3760591.9	200.2	3.66	2.33
2.89	YES						
L0043412	0	0.59210E-07	441232.1	3760586.9	200.1	3.66	2.33
2.89	YES						
L0043413	0	0.59210E-07	441232.1	3760581.9	200.1	3.66	2.33
2.89	YES						
L0043414	0	0.59210E-07	441232.2	3760576.9	200.1	3.66	2.33
2.89	YES						
L0043415	0	0.59210E-07	441232.5	3760571.9	200.1	3.66	2.33
2.89	YES						
L0043416	0	0.59210E-07	441232.8	3760566.9	200.1	3.66	2.33
2.89	YES						
L0043417	0	0.59210E-07	441233.1	3760561.9	200.0	3.66	2.33
2.89	YES						
L0043418	0	0.59210E-07	441233.4	3760556.9	200.0	3.66	2.33
2.89	YES						
L0043419	0	0.59210E-07	441233.7	3760551.9	200.0	3.66	2.33
2.89	YES						
L0043420	0	0.59210E-07	441234.0	3760546.9	199.9	3.66	2.33
2.89	YES						
L0043421	0	0.59210E-07	441235.6	3760542.3	199.9	3.66	2.33
2.89	YES						
L0043422	0	0.59210E-07	441237.6	3760537.7	199.9	3.66	2.33
2.89	YES						
L0043423	0	0.59210E-07	441239.7	3760533.2	199.7	3.66	2.33
2.89	YES						

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0043424		0	0.59210E-07	441241.8	3760528.6	199.4	3.66	2.33
2.89	YES							
L0043425		0	0.59210E-07	441243.9	3760524.1	199.2	3.66	2.33
2.89	YES							
L0043426		0	0.59210E-07	441246.3	3760519.8	198.9	3.66	2.33
2.89	YES							
L0043427		0	0.59210E-07	441250.5	3760517.0	198.8	3.66	2.33
2.89	YES							
L0043428		0	0.59210E-07	441254.6	3760514.2	198.6	3.66	2.33
2.89	YES							
L0043429		0	0.59210E-07	441258.7	3760511.4	198.4	3.66	2.33
2.89	YES							
L0043430		0	0.59210E-07	441262.8	3760508.6	198.3	3.66	2.33
2.89	YES							
L0043431		0	0.59210E-07	441267.0	3760505.7	198.1	3.66	2.33
2.89	YES							
L0043432		0	0.59210E-07	441271.6	3760504.6	198.1	3.66	2.33
2.89	YES							
L0043433		0	0.59210E-07	441276.6	3760504.4	198.1	3.66	2.33
2.89	YES							
L0043434		0	0.59210E-07	441281.6	3760504.3	198.2	3.66	2.33
2.89	YES							
L0043435		0	0.59210E-07	441286.6	3760504.2	198.2	3.66	2.33
2.89	YES							
L0043436		0	0.59210E-07	441291.6	3760504.0	198.2	3.66	2.33
2.89	YES							
L0043437		0	0.59210E-07	441296.6	3760503.9	198.2	3.66	2.33
2.89	YES							
L0043438		0	0.59210E-07	441301.6	3760503.8	198.2	3.66	2.33
2.89	YES							
L0043439		0	0.59210E-07	441306.6	3760503.6	198.3	3.66	2.33
2.89	YES							

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L0043440	0	0.59210E-07	441311.6	3760503.5	198.3	3.66	2.33
2.89	YES						
L0043441	0	0.59210E-07	441316.6	3760503.3	198.3	3.66	2.33
2.89	YES						
L0043442	0	0.59210E-07	441321.6	3760503.2	198.3	3.66	2.33
2.89	YES						
L0043443	0	0.59210E-07	441326.6	3760503.1	198.3	3.66	2.33
2.89	YES						
L0043444	0	0.59210E-07	441331.6	3760502.9	198.4	3.66	2.33
2.89	YES						
L0043445	0	0.59210E-07	441336.6	3760502.8	198.4	3.66	2.33
2.89	YES						
L0043446	0	0.59210E-07	441341.6	3760502.6	198.4	3.66	2.33
2.89	YES						
L0043447	0	0.59210E-07	441346.6	3760502.5	198.4	3.66	2.33
2.89	YES						
L0043448	0	0.59210E-07	441351.6	3760502.4	198.4	3.66	2.33
2.89	YES						
L0043449	0	0.59210E-07	441356.6	3760502.2	198.5	3.66	2.33
2.89	YES						
L0043450	0	0.59210E-07	441361.6	3760502.1	198.5	3.66	2.33
2.89	YES						
L0043451	0	0.59210E-07	441366.6	3760501.9	198.5	3.66	2.33
2.89	YES						
L0043452	0	0.59210E-07	441371.6	3760501.8	198.5	3.66	2.33
2.89	YES						
L0043453	0	0.58660E-07	441375.9	3760501.9	198.5	3.66	2.33
2.89	YES						
L0043454	0	0.58660E-07	441380.9	3760501.8	198.6	3.66	2.33
2.89	YES						
L0043455	0	0.58660E-07	441385.9	3760501.7	198.6	3.66	2.33
2.89	YES						
L0043456	0	0.58660E-07	441390.9	3760501.6	198.6	3.66	2.33
2.89	YES						
L0043457	0	0.58660E-07	441395.9	3760501.6	198.7	3.66	2.33
2.89	YES						
L0043458	0	0.58660E-07	441400.9	3760501.5	198.7	3.66	2.33
2.89	YES						
L0043459	0	0.58660E-07	441405.9	3760501.4	198.8	3.66	2.33
2.89	YES						
L0043460	0	0.58660E-07	441410.9	3760501.3	198.8	3.66	2.33
2.89	YES						
L0043461	0	0.58660E-07	441415.9	3760501.3	198.8	3.66	2.33
2.89	YES						
L0043462	0	0.58660E-07	441420.9	3760501.3	198.8	3.66	2.33
2.89	YES						
L0043463	0	0.58660E-07	441425.9	3760501.3	198.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE	EMISSION	EMISSION	RATE		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)
ID	CATS.	BY	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)							
L0043464		0	0.58660E-07	441430.9	3760501.3	198.8	2.33
2.89	YES						
L0043465		0	0.58660E-07	441435.9	3760501.3	198.8	2.33
2.89	YES						
L0043466		0	0.58660E-07	441440.9	3760501.3	198.9	2.33
2.89	YES						
L0043467		0	0.58660E-07	441445.9	3760501.3	198.9	2.33
2.89	YES						
L0043468		0	0.58660E-07	441450.9	3760501.3	198.9	2.33
2.89	YES						
L0043469		0	0.58660E-07	441455.9	3760501.3	199.0	2.33
2.89	YES						
L0043470		0	0.58660E-07	441460.9	3760501.3	199.0	2.33
2.89	YES						
L0043471		0	0.58660E-07	441465.9	3760501.4	199.1	2.33
2.89	YES						
L0043472		0	0.58660E-07	441470.9	3760501.5	199.2	2.33
2.89	YES						
L0043473		0	0.58660E-07	441475.9	3760501.6	199.4	2.33
2.89	YES						
L0043474		0	0.58660E-07	441480.9	3760501.5	199.5	2.33
2.89	YES						
L0043475		0	0.58660E-07	441485.9	3760501.4	199.6	2.33
2.89	YES						
L0043476		0	0.58660E-07	441490.9	3760501.4	199.7	2.33
2.89	YES						
L0043477		0	0.58660E-07	441495.9	3760501.3	199.6	2.33
2.89	YES						



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L0043478	0	0.58660E-07	441500.9	3760501.3	199.6	3.66	2.33
2.89	YES						
L0043479	0	0.58660E-07	441505.9	3760501.3	199.5	3.66	2.33
2.89	YES						
L0043480	0	0.58660E-07	441510.8	3760502.2	199.5	3.66	2.33
2.89	YES						
L0043481	0	0.58660E-07	441515.5	3760503.5	199.4	3.66	2.33
2.89	YES						
L0043482	0	0.58660E-07	441519.2	3760506.9	199.5	3.66	2.33
2.89	YES						
L0043483	0	0.58660E-07	441522.8	3760510.3	199.5	3.66	2.33
2.89	YES						
L0043484	0	0.58660E-07	441525.0	3760514.8	199.5	3.66	2.33
2.89	YES						
L0043485	0	0.58660E-07	441527.1	3760519.3	199.5	3.66	2.33
2.89	YES						
L0043486	0	0.58660E-07	441529.1	3760523.9	199.6	3.66	2.33
2.89	YES						
L0043487	0	0.58660E-07	441529.1	3760528.9	199.6	3.66	2.33
2.89	YES						
L0043488	0	0.58660E-07	441529.1	3760533.9	199.6	3.66	2.33
2.89	YES						
L0043489	0	0.58660E-07	441529.2	3760538.9	199.6	3.66	2.33
2.89	YES						
L0043490	0	0.58660E-07	441529.2	3760543.9	199.7	3.66	2.33
2.89	YES						
L0043491	0	0.58660E-07	441529.2	3760548.9	199.7	3.66	2.33
2.89	YES						
L0043492	0	0.58660E-07	441529.2	3760553.9	199.8	3.66	2.33
2.89	YES						
L0043493	0	0.58660E-07	441529.2	3760558.9	199.9	3.66	2.33
2.89	YES						
L0043494	0	0.58660E-07	441529.2	3760563.9	199.9	3.66	2.33
2.89	YES						
L0043495	0	0.58660E-07	441529.3	3760568.9	200.0	3.66	2.33
2.89	YES						
L0043496	0	0.58660E-07	441529.3	3760573.9	199.9	3.66	2.33
2.89	YES						
L0043497	0	0.58660E-07	441529.3	3760578.9	199.9	3.66	2.33
2.89	YES						
L0043498	0	0.58660E-07	441529.3	3760583.9	199.9	3.66	2.33
2.89	YES						
L0043499	0	0.58660E-07	441529.3	3760588.9	199.9	3.66	2.33
2.89	YES						
L0043500	0	0.58660E-07	441529.3	3760593.9	199.9	3.66	2.33
2.89	YES						
L0043501	0	0.58660E-07	441529.4	3760598.9	199.9	3.66	2.33
2.89	YES						

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L0043502            0    0.58660E-07  441529.4 3760603.9    200.0        3.66        2.33  
 2.89        YES  
 L0043503            0    0.58660E-07  441529.4 3760608.9    200.0        3.66        2.33  
 2.89        YES

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0043504	0	0.58660E-07	441529.4	3760613.9	200.1	3.66	2.33
2.89	YES						
L0043505	0	0.58660E-07	441529.4	3760618.9	200.1	3.66	2.33
2.89	YES						
L0043506	0	0.58660E-07	441529.4	3760623.9	200.1	3.66	2.33
2.89	YES						
L0043507	0	0.58660E-07	441529.5	3760628.9	200.2	3.66	2.33
2.89	YES						
L0043508	0	0.58660E-07	441529.5	3760633.9	200.3	3.66	2.33
2.89	YES						
L0043509	0	0.58660E-07	441529.5	3760638.9	200.3	3.66	2.33
2.89	YES						
L0043510	0	0.58660E-07	441529.5	3760643.9	200.4	3.66	2.33
2.89	YES						
L0043511	0	0.58660E-07	441529.5	3760648.9	200.5	3.66	2.33
2.89	YES						
L0043512	0	0.58660E-07	441529.6	3760653.9	200.5	3.66	2.33
2.89	YES						
L0043513	0	0.58660E-07	441529.6	3760658.9	200.6	3.66	2.33
2.89	YES						
L0043514	0	0.58660E-07	441529.6	3760663.9	200.6	3.66	2.33
2.89	YES						
L0043515	0	0.58660E-07	441529.6	3760668.9	200.6	3.66	2.33
2.89	YES						

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L0043516	0	0.58660E-07	441529.6	3760673.9	200.6	3.66	2.33
2.89	YES						
L0043517	0	0.58660E-07	441529.6	3760678.9	200.7	3.66	2.33
2.89	YES						
L0043518	0	0.58660E-07	441529.7	3760683.9	200.7	3.66	2.33
2.89	YES						
L0043519	0	0.58660E-07	441529.7	3760688.9	200.7	3.66	2.33
2.89	YES						
L0043520	0	0.58660E-07	441529.7	3760693.9	200.7	3.66	2.33
2.89	YES						
L0043521	0	0.58660E-07	441529.7	3760698.9	200.8	3.66	2.33
2.89	YES						
L0043522	0	0.58660E-07	441529.7	3760703.9	200.8	3.66	2.33
2.89	YES						
L0043523	0	0.58660E-07	441529.7	3760708.9	200.8	3.66	2.33
2.89	YES						
L0043524	0	0.58660E-07	441529.8	3760713.9	200.9	3.66	2.33
2.89	YES						
L0043525	0	0.58660E-07	441529.8	3760718.9	200.9	3.66	2.33
2.89	YES						
L0043526	0	0.58660E-07	441529.8	3760723.9	200.9	3.66	2.33
2.89	YES						
L0043527	0	0.58660E-07	441529.8	3760728.9	201.0	3.66	2.33
2.89	YES						
L0043528	0	0.58660E-07	441529.8	3760733.9	201.0	3.66	2.33
2.89	YES						
L0043529	0	0.58660E-07	441529.8	3760738.9	201.0	3.66	2.33
2.89	YES						
L0043530	0	0.58660E-07	441529.9	3760743.9	201.0	3.66	2.33
2.89	YES						
L0043531	0	0.58660E-07	441529.9	3760748.9	201.0	3.66	2.33
2.89	YES						
L0043532	0	0.58660E-07	441529.9	3760753.9	201.0	3.66	2.33
2.89	YES						
L0043533	0	0.58660E-07	441529.9	3760758.9	201.1	3.66	2.33
2.89	YES						
L0043534	0	0.58660E-07	441529.9	3760763.9	201.1	3.66	2.33
2.89	YES						
L0043535	0	0.58660E-07	441530.0	3760768.9	201.2	3.66	2.33
2.89	YES						
L0043536	0	0.58660E-07	441530.0	3760773.9	201.2	3.66	2.33
2.89	YES						
L0043537	0	0.58660E-07	441530.0	3760778.9	201.2	3.66	2.33
2.89	YES						
L0043538	0	0.58660E-07	441530.0	3760783.9	201.3	3.66	2.33
2.89	YES						
L0043539	0	0.58660E-07	441530.0	3760788.9	201.4	3.66	2.33
2.89	YES						

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L0043540	0	0.58660E-07	441530.0	3760793.9	201.5	3.66	2.33
2.89	YES						
L0043541	0	0.58660E-07	441530.1	3760798.9	201.6	3.66	2.33
2.89	YES						
L0043542	0	0.58660E-07	441530.1	3760803.9	201.6	3.66	2.33
2.89	YES						
L0043543	0	0.58660E-07	441530.1	3760808.9	201.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0043544	0	0.58660E-07	441530.1	3760813.9	201.8	3.66	2.33
2.89	YES						
L0043545	0	0.58660E-07	441530.1	3760818.9	201.8	3.66	2.33
2.89	YES						
L0043546	0	0.58660E-07	441530.1	3760823.9	201.8	3.66	2.33
2.89	YES						
L0043547	0	0.58660E-07	441530.2	3760828.9	201.8	3.66	2.33
2.89	YES						
L0043548	0	0.58660E-07	441530.2	3760833.9	201.8	3.66	2.33
2.89	YES						
L0043549	0	0.58660E-07	441530.2	3760838.9	201.8	3.66	2.33
2.89	YES						
L0043550	0	0.58660E-07	441530.2	3760843.9	201.8	3.66	2.33
2.89	YES						
L0043551	0	0.58660E-07	441530.2	3760848.9	201.9	3.66	2.33
2.89	YES						
L0043552	0	0.58660E-07	441530.2	3760853.9	202.0	3.66	2.33
2.89	YES						
L0043553	0	0.58660E-07	441530.3	3760858.9	202.0	3.66	2.33
2.89	YES						

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L0043554	0	0.58660E-07	441530.3	3760863.9	202.1	3.66	2.33
2.89	YES						
L0043555	0	0.58660E-07	441530.3	3760868.9	202.2	3.66	2.33
2.89	YES						
L0043556	0	0.58660E-07	441530.3	3760873.9	202.2	3.66	2.33
2.89	YES						
L0043557	0	0.58660E-07	441530.3	3760878.9	202.2	3.66	2.33
2.89	YES						
L0043558	0	0.58660E-07	441530.3	3760883.9	202.2	3.66	2.33
2.89	YES						
L0043559	0	0.58660E-07	441530.4	3760888.9	202.2	3.66	2.33
2.89	YES						
L0043560	0	0.58660E-07	441530.4	3760893.9	202.2	3.66	2.33
2.89	YES						
L0043561	0	0.58660E-07	441530.4	3760898.9	202.2	3.66	2.33
2.89	YES						
L0043562	0	0.58660E-07	441530.4	3760903.9	202.2	3.66	2.33
2.89	YES						
L0043563	0	0.58660E-07	441530.4	3760908.9	202.2	3.66	2.33
2.89	YES						
L0043564	0	0.58660E-07	441530.5	3760913.9	202.2	3.66	2.33
2.89	YES						
L0043565	0	0.58660E-07	441530.5	3760918.9	202.2	3.66	2.33
2.89	YES						
L0043566	0	0.58660E-07	441530.5	3760923.9	202.3	3.66	2.33
2.89	YES						
L0043567	0	0.58660E-07	441530.5	3760928.9	202.3	3.66	2.33
2.89	YES						
L0043568	0	0.58660E-07	441530.5	3760933.9	202.3	3.66	2.33
2.89	YES						
L0043569	0	0.58660E-07	441530.5	3760938.9	202.3	3.66	2.33
2.89	YES						
L0043570	0	0.58660E-07	441530.6	3760943.9	202.4	3.66	2.33
2.89	YES						
L0043571	0	0.58660E-07	441530.6	3760948.9	202.4	3.66	2.33
2.89	YES						
L0043572	0	0.58660E-07	441530.6	3760953.9	202.4	3.66	2.33
2.89	YES						
L0043573	0	0.58660E-07	441530.6	3760958.9	202.4	3.66	2.33
2.89	YES						
L0043574	0	0.58660E-07	441530.6	3760963.9	202.5	3.66	2.33
2.89	YES						
L0043575	0	0.58660E-07	441530.6	3760968.9	202.5	3.66	2.33
2.89	YES						
L0043576	0	0.58660E-07	441530.7	3760973.9	202.5	3.66	2.33
2.89	YES						
L0043577	0	0.58660E-07	441530.7	3760978.9	202.6	3.66	2.33
2.89	YES						

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L0043578	0	0.58660E-07	441530.7	3760983.9	202.6	3.66	2.33
2.89	YES						
L0043579	0	0.58660E-07	441530.7	3760988.9	202.6	3.66	2.33
2.89	YES						
L0043580	0	0.58660E-07	441530.7	3760993.9	202.6	3.66	2.33
2.89	YES						
L0043581	0	0.58660E-07	441530.7	3760998.9	202.7	3.66	2.33
2.89	YES						
L0043582	0	0.58660E-07	441530.8	3761003.9	202.7	3.66	2.33
2.89	YES						
L0043583	0	0.58660E-07	441530.8	3761008.9	202.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0043584	0	0.58660E-07	441530.8	3761013.9	202.8	3.66	2.33	
2.89	YES							
L0043585	0	0.58660E-07	441530.8	3761018.9	202.8	3.66	2.33	
2.89	YES							
L0043586	0	0.58660E-07	441530.8	3761023.9	202.8	3.66	2.33	
2.89	YES							
L0043587	0	0.58660E-07	441530.9	3761028.9	202.9	3.66	2.33	
2.89	YES							
L0043588	0	0.58660E-07	441530.9	3761033.9	202.9	3.66	2.33	
2.89	YES							
L0043589	0	0.58660E-07	441530.9	3761038.9	202.9	3.66	2.33	
2.89	YES							
L0043590	0	0.58660E-07	441530.9	3761043.9	203.0	3.66	2.33	
2.89	YES							
L0043591	0	0.58660E-07	441530.9	3761048.9	203.0	3.66	2.33	
2.89	YES							

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L0043592	0	0.58660E-07	441530.9	3761053.9	203.0	3.66	2.33
2.89	YES						
L0043593	0	0.58660E-07	441531.0	3761058.9	203.1	3.66	2.33
2.89	YES						
L0043594	0	0.58660E-07	441531.0	3761063.9	203.1	3.66	2.33
2.89	YES						
L0043595	0	0.58660E-07	441531.0	3761068.9	203.1	3.66	2.33
2.89	YES						
L0043596	0	0.58660E-07	441531.0	3761073.9	203.2	3.66	2.33
2.89	YES						
L0043597	0	0.58660E-07	441531.0	3761078.9	203.2	3.66	2.33
2.89	YES						
L0043598	0	0.58660E-07	441531.0	3761083.9	203.2	3.66	2.33
2.89	YES						
L0043599	0	0.58660E-07	441531.1	3761088.9	203.3	3.66	2.33
2.89	YES						
L0043600	0	0.58660E-07	441531.1	3761093.9	203.3	3.66	2.33
2.89	YES						
L0043601	0	0.58660E-07	441531.1	3761098.9	203.4	3.66	2.33
2.89	YES						
L0043602	0	0.58660E-07	441531.1	3761103.9	203.4	3.66	2.33
2.89	YES						
L0043603	0	0.58660E-07	441531.1	3761108.9	203.4	3.66	2.33
2.89	YES						
L0043604	0	0.58660E-07	441531.1	3761113.9	203.5	3.66	2.33
2.89	YES						
L0043605	0	0.58660E-07	441531.2	3761118.9	203.5	3.66	2.33
2.89	YES						
L0043606	0	0.58660E-07	441531.2	3761123.9	203.6	3.66	2.33
2.89	YES						
L0043607	0	0.58660E-07	441531.2	3761128.9	203.6	3.66	2.33
2.89	YES						
L0043608	0	0.58660E-07	441531.2	3761133.9	203.6	3.66	2.33
2.89	YES						
L0043609	0	0.58660E-07	441531.2	3761138.9	203.7	3.66	2.33
2.89	YES						
L0043610	0	0.00000E+00	441258.5	3761193.8	203.9	3.66	1.40
2.89	YES						
L0043611	0	0.00000E+00	441261.5	3761193.8	203.9	3.66	1.40
2.89	YES						
L0043612	0	0.00000E+00	441264.5	3761193.9	203.9	3.66	1.40
2.89	YES						
L0043613	0	0.00000E+00	441267.5	3761193.9	203.9	3.66	1.40
2.89	YES						
L0043614	0	0.00000E+00	441270.5	3761193.9	203.9	3.66	1.40
2.89	YES						
L0043615	0	0.00000E+00	441273.5	3761194.0	203.9	3.66	1.40
2.89	YES						

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L0043616	0	0.00000E+00	441276.5	3761194.0	203.9	3.66	1.40
2.89	YES						
L0043617	0	0.00000E+00	441279.5	3761194.0	203.9	3.66	1.40
2.89	YES						
L0043618	0	0.00000E+00	441282.5	3761194.0	203.9	3.66	1.40
2.89	YES						
L0043619	0	0.00000E+00	441285.5	3761194.1	203.9	3.66	1.40
2.89	YES						
L0043620	0	0.00000E+00	441288.5	3761194.1	203.9	3.66	1.40
2.89	YES						
L0043621	0	0.00000E+00	441291.5	3761194.1	203.9	3.66	1.40
2.89	YES						
L0043622	0	0.00000E+00	441294.5	3761194.2	203.9	3.66	1.40
2.89	YES						
L0043623	0	0.00000E+00	441297.5	3761194.2	203.9	3.66	1.40
2.89	YES						

\* \*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0043624	0	0.00000E+00	441300.5	3761194.2	203.9	3.66	1.40
2.89	YES						
L0043625	0	0.00000E+00	441303.5	3761194.2	203.9	3.66	1.40
2.89	YES						
L0043626	0	0.00000E+00	441306.5	3761194.3	203.9	3.66	1.40
2.89	YES						
L0043627	0	0.00000E+00	441309.5	3761194.3	203.9	3.66	1.40
2.89	YES						
L0043628	0	0.00000E+00	441312.5	3761194.3	203.9	3.66	1.40
2.89	YES						
L0043629	0	0.00000E+00	441315.5	3761194.4	203.9	3.66	1.40
2.89	YES						



SOL\_operations\_rev2.ADO

L0043630	0	0.00000E+00	441417.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043631	0	0.00000E+00	441420.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043632	0	0.00000E+00	441423.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043633	0	0.00000E+00	441426.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043634	0	0.00000E+00	441429.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043635	0	0.00000E+00	441432.6	3761195.5	203.9	3.66	1.40
2.89	YES						
L0043636	0	0.00000E+00	441435.6	3761195.4	203.9	3.66	1.40
2.89	YES						
L0043637	0	0.00000E+00	441438.6	3761195.4	203.9	3.66	1.40
2.89	YES						
L0043638	0	0.00000E+00	441441.6	3761195.4	203.9	3.66	1.40
2.89	YES						
L0043639	0	0.00000E+00	441444.6	3761195.4	203.9	3.66	1.40
2.89	YES						
L0043640	0	0.00000E+00	441447.6	3761195.4	203.9	3.66	1.40
2.89	YES						
L0043641	0	0.00000E+00	441450.6	3761195.4	204.0	3.66	1.40
2.89	YES						
L0043642	0	0.00000E+00	441453.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043643	0	0.00000E+00	441456.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043644	0	0.00000E+00	441459.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043645	0	0.00000E+00	441462.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043646	0	0.00000E+00	441465.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043647	0	0.00000E+00	441468.6	3761195.3	204.0	3.66	1.40
2.89	YES						
L0043648	0	0.00000E+00	441471.6	3761195.2	204.0	3.66	1.40
2.89	YES						
L0043649	0	0.00000E+00	441474.6	3761195.2	204.0	3.66	1.40
2.89	YES						
L0043650	0	0.00000E+00	441554.3	3761194.6	204.2	3.66	1.40
2.89	YES						
L0043651	0	0.00000E+00	441557.3	3761194.6	204.2	3.66	1.40
2.89	YES						
L0043652	0	0.00000E+00	441560.3	3761194.6	204.2	3.66	1.40
2.89	YES						
L0043653	0	0.00000E+00	441563.3	3761194.6	204.3	3.66	1.40
2.89	YES						

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L0043654	0	0.00000E+00	441566.3	3761194.7	204.3	3.66	1.40
2.89	YES						
L0043655	0	0.00000E+00	441569.3	3761194.7	204.3	3.66	1.40
2.89	YES						
L0043656	0	0.00000E+00	441572.3	3761194.7	204.4	3.66	1.40
2.89	YES						
L0043657	0	0.00000E+00	441575.3	3761194.7	204.4	3.66	1.40
2.89	YES						
L0043658	0	0.00000E+00	441578.3	3761194.7	204.4	3.66	1.40
2.89	YES						
L0043659	0	0.00000E+00	441581.3	3761194.7	204.5	3.66	1.40
2.89	YES						
L0043660	0	0.00000E+00	441584.3	3761194.8	204.5	3.66	1.40
2.89	YES						
L0043661	0	0.00000E+00	441587.3	3761194.8	204.5	3.66	1.40
2.89	YES						
L0043662	0	0.00000E+00	441590.3	3761194.8	204.5	3.66	1.40
2.89	YES						
L0043663	0	0.00000E+00	441593.3	3761194.8	204.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0043664	0	0.00000E+00	441596.3	3761194.8	204.6	3.66	1.40
2.89	YES						
L0043665	0	0.00000E+00	441599.3	3761194.8	204.6	3.66	1.40
2.89	YES						
L0043666	0	0.00000E+00	441602.3	3761194.8	204.6	3.66	1.40
2.89	YES						
L0043667	0	0.00000E+00	441605.3	3761194.9	204.7	3.66	1.40
2.89	YES						

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L0043668	0	0.00000E+00	441608.3	3761194.9	204.7	3.66	1.40
2.89	YES						
L0043669	0	0.00000E+00	441611.3	3761194.9	204.7	3.66	1.40
2.89	YES						
L0043670	0	0.00000E+00	441614.3	3761194.9	204.8	3.66	1.40
2.89	YES						
L0043671	0	0.00000E+00	441617.3	3761194.9	204.8	3.66	1.40
2.89	YES						
L0043672	0	0.00000E+00	441708.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043673	0	0.00000E+00	441711.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043674	0	0.00000E+00	441714.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043675	0	0.00000E+00	441717.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043676	0	0.00000E+00	441720.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043677	0	0.00000E+00	441723.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043678	0	0.00000E+00	441726.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043679	0	0.00000E+00	441729.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043680	0	0.00000E+00	441732.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043681	0	0.00000E+00	441735.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043682	0	0.00000E+00	441738.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043683	0	0.00000E+00	441741.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043684	0	0.00000E+00	441744.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043685	0	0.00000E+00	441747.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043686	0	0.00000E+00	441750.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043687	0	0.00000E+00	441753.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043688	0	0.00000E+00	441756.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043689	0	0.00000E+00	441759.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043690	0	0.00000E+00	441762.2	3761196.1	204.7	3.66	1.40
2.89	YES						
L0043691	0	0.00000E+00	441765.2	3761196.1	204.7	3.66	1.40
2.89	YES						

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L0043692	0	0.00000E+00	441768.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043693	0	0.00000E+00	441771.2	3761196.1	204.8	3.66	1.40
2.89	YES						
L0043694	0	0.00000E+00	441878.9	3761193.8	204.3	3.66	1.40
2.89	YES						
L0043695	0	0.00000E+00	441881.9	3761193.8	204.4	3.66	1.40
2.89	YES						
L0043696	0	0.00000E+00	441884.9	3761193.8	204.4	3.66	1.40
2.89	YES						
L0043697	0	0.00000E+00	441887.9	3761193.9	204.4	3.66	1.40
2.89	YES						
L0043698	0	0.00000E+00	441890.9	3761193.9	204.5	3.66	1.40
2.89	YES						
L0043699	0	0.00000E+00	441893.9	3761193.9	204.5	3.66	1.40
2.89	YES						
L0043700	0	0.00000E+00	441896.9	3761193.9	204.5	3.66	1.40
2.89	YES						
L0043701	0	0.00000E+00	441899.9	3761193.9	204.5	3.66	1.40
2.89	YES						
L0043702	0	0.00000E+00	441902.9	3761193.9	204.6	3.66	1.40
2.89	YES						
L0043703	0	0.00000E+00	441905.9	3761194.0	204.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0043704	0	0.00000E+00	441908.9	3761194.0	204.7	3.66	1.40
2.89	YES						
L0043705	0	0.00000E+00	441911.9	3761194.0	204.7	3.66	1.40
2.89	YES						

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L0043706	0	0.00000E+00	441914.9	3761194.0	204.8	3.66	1.40
2.89	YES						
L0043707	0	0.00000E+00	441917.9	3761194.0	204.8	3.66	1.40
2.89	YES						
L0043708	0	0.00000E+00	441920.9	3761194.0	204.9	3.66	1.40
2.89	YES						
L0043709	0	0.00000E+00	441923.9	3761194.1	204.9	3.66	1.40
2.89	YES						
L0043710	0	0.00000E+00	441926.9	3761194.1	205.0	3.66	1.40
2.89	YES						
L0043711	0	0.00000E+00	441929.9	3761194.1	205.0	3.66	1.40
2.89	YES						
L0043712	0	0.00000E+00	441932.9	3761194.1	205.1	3.66	1.40
2.89	YES						
L0043713	0	0.00000E+00	441935.9	3761194.1	205.1	3.66	1.40
2.89	YES						
L0043714	0	0.00000E+00	441938.9	3761194.1	205.1	3.66	1.40
2.89	YES						
L0043715	0	0.00000E+00	441626.1	3761087.8	204.1	3.66	1.40
2.89	YES						
L0043716	0	0.00000E+00	441629.1	3761087.7	204.0	3.66	1.40
2.89	YES						
L0043717	0	0.00000E+00	441632.1	3761087.7	204.0	3.66	1.40
2.89	YES						
L0043718	0	0.00000E+00	441635.1	3761087.7	204.0	3.66	1.40
2.89	YES						
L0043719	0	0.00000E+00	441638.1	3761087.7	204.0	3.66	1.40
2.89	YES						
L0043720	0	0.00000E+00	441641.1	3761087.7	204.0	3.66	1.40
2.89	YES						
L0043721	0	0.00000E+00	441644.1	3761087.7	203.9	3.66	1.40
2.89	YES						
L0043722	0	0.00000E+00	441647.1	3761087.6	203.9	3.66	1.40
2.89	YES						
L0043723	0	0.00000E+00	441650.1	3761087.6	203.9	3.66	1.40
2.89	YES						
L0043724	0	0.00000E+00	441653.1	3761087.6	203.9	3.66	1.40
2.89	YES						
L0043725	0	0.00000E+00	441656.1	3761087.6	203.9	3.66	1.40
2.89	YES						
L0043726	0	0.00000E+00	441659.1	3761087.6	203.9	3.66	1.40
2.89	YES						
L0043727	0	0.00000E+00	441662.1	3761087.5	203.8	3.66	1.40
2.89	YES						
L0043728	0	0.00000E+00	441665.1	3761087.5	203.8	3.66	1.40
2.89	YES						
L0043729	0	0.00000E+00	441668.1	3761087.5	203.8	3.66	1.40
2.89	YES						

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L0043730	0	0.00000E+00	441671.1	3761087.5	203.8	3.66	1.40
2.89	YES						
L0043731	0	0.00000E+00	441674.1	3761087.5	203.7	3.66	1.40
2.89	YES						
L0043732	0	0.00000E+00	441677.1	3761087.5	203.7	3.66	1.40
2.89	YES						
L0043733	0	0.00000E+00	441680.1	3761087.4	203.6	3.66	1.40
2.89	YES						
L0043734	0	0.00000E+00	441683.1	3761087.4	203.6	3.66	1.40
2.89	YES						
L0043735	0	0.00000E+00	441686.1	3761087.4	203.5	3.66	1.40
2.89	YES						
L0043736	0	0.00000E+00	441689.1	3761087.4	203.5	3.66	1.40
2.89	YES						
L0043737	0	0.00000E+00	441692.1	3761087.4	203.4	3.66	1.40
2.89	YES						
L0043738	0	0.00000E+00	441695.1	3761087.3	203.4	3.66	1.40
2.89	YES						
L0043739	0	0.00000E+00	441698.1	3761087.3	203.4	3.66	1.40
2.89	YES						
L0043740	0	0.00000E+00	441701.1	3761087.3	203.4	3.66	1.40
2.89	YES						
L0043741	0	0.00000E+00	441704.1	3761087.3	203.4	3.66	1.40
2.89	YES						
L0043742	0	0.00000E+00	441707.1	3761087.3	203.4	3.66	1.40
2.89	YES						
L0043743	0	0.00000E+00	441710.1	3761087.2	203.4	3.66	1.40
2.89	YES						

\*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

SOL\_operations\_rev2.ADO

L0043744	0	0.00000E+00	441713.1	3761087.2	203.5	3.66	1.40
2.89	YES						
L0043745	0	0.00000E+00	441716.1	3761087.2	203.5	3.66	1.40
2.89	YES						
L0043746	0	0.00000E+00	441719.1	3761087.2	203.5	3.66	1.40
2.89	YES						
L0043747	0	0.00000E+00	441722.1	3761087.2	203.5	3.66	1.40
2.89	YES						
L0043748	0	0.00000E+00	441725.1	3761087.2	203.6	3.66	1.40
2.89	YES						
L0043749	0	0.00000E+00	441728.1	3761087.1	203.6	3.66	1.40
2.89	YES						
L0043750	0	0.00000E+00	441731.1	3761087.1	203.6	3.66	1.40
2.89	YES						
L0043751	0	0.00000E+00	441734.1	3761087.1	203.7	3.66	1.40
2.89	YES						
L0043752	0	0.00000E+00	441737.1	3761087.1	203.7	3.66	1.40
2.89	YES						
L0043753	0	0.00000E+00	441740.1	3761087.1	203.8	3.66	1.40
2.89	YES						
L0043754	0	0.00000E+00	441743.1	3761087.0	203.8	3.66	1.40
2.89	YES						
L0043755	0	0.00000E+00	441746.1	3761087.0	203.9	3.66	1.40
2.89	YES						
L0043756	0	0.00000E+00	441749.1	3761087.0	203.9	3.66	1.40
2.89	YES						
L0043757	0	0.00000E+00	441752.1	3761087.0	203.9	3.66	1.40
2.89	YES						
L0043758	0	0.00000E+00	441755.1	3761087.0	203.9	3.66	1.40
2.89	YES						
L0043759	0	0.00000E+00	441758.1	3761087.0	204.0	3.66	1.40
2.89	YES						
L0043760	0	0.00000E+00	441761.1	3761086.9	204.0	3.66	1.40
2.89	YES						
L0043761	0	0.00000E+00	441764.1	3761086.9	204.0	3.66	1.40
2.89	YES						
L0043762	0	0.00000E+00	441767.1	3761086.9	204.0	3.66	1.40
2.89	YES						
L0043763	0	0.00000E+00	441770.1	3761086.9	204.1	3.66	1.40
2.89	YES						
L0043764	0	0.00000E+00	441773.1	3761086.9	204.1	3.66	1.40
2.89	YES						
L0043765	0	0.00000E+00	441776.1	3761086.8	204.1	3.66	1.40
2.89	YES						
L0043766	0	0.00000E+00	441779.1	3761086.8	204.1	3.66	1.40
2.89	YES						
L0043767	0	0.00000E+00	441782.1	3761086.8	204.1	3.66	1.40
2.89	YES						

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L0043768	0	0.00000E+00	441785.1	3761086.8	204.1	3.66	1.40
2.89	YES						
L0043769	0	0.00000E+00	441788.1	3761086.8	204.1	3.66	1.40
2.89	YES						
L0043770	0	0.00000E+00	441791.1	3761086.7	204.1	3.66	1.40
2.89	YES						
L0043771	0	0.00000E+00	441794.1	3761086.7	204.1	3.66	1.40
2.89	YES						
L0043772	0	0.00000E+00	441797.1	3761086.7	204.1	3.66	1.40
2.89	YES						
L0043773	0	0.00000E+00	441800.1	3761086.7	204.1	3.66	1.40
2.89	YES						
L0043774	0	0.00000E+00	441803.1	3761086.7	204.1	3.66	1.40
2.89	YES						
L0043775	0	0.00000E+00	441806.1	3761086.7	204.0	3.66	1.40
2.89	YES						
L0043776	0	0.00000E+00	441809.1	3761086.6	204.0	3.66	1.40
2.89	YES						
L0043777	0	0.00000E+00	441812.1	3761086.6	203.9	3.66	1.40
2.89	YES						
L0043778	0	0.00000E+00	441815.1	3761086.6	203.9	3.66	1.40
2.89	YES						
L0043779	0	0.00000E+00	441818.1	3761086.6	203.9	3.66	1.40
2.89	YES						
L0043780	0	0.00000E+00	441821.1	3761086.6	203.8	3.66	1.40
2.89	YES						
L0043781	0	0.00000E+00	441824.1	3761086.5	203.8	3.66	1.40
2.89	YES						
L0043782	0	0.00000E+00	441827.1	3761086.5	203.7	3.66	1.40
2.89	YES						
L0043783	0	0.00000E+00	441830.1	3761086.5	203.7	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)



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(METERS)

BY

L0043784	0	0.00000E+00	441833.1	3761086.5	203.6	3.66	1.40
2.89 YES							
L0043785	0	0.00000E+00	441836.1	3761086.5	203.6	3.66	1.40
2.89 YES							
L0043786	0	0.00000E+00	441839.1	3761086.5	203.5	3.66	1.40
2.89 YES							
L0043787	0	0.00000E+00	441842.1	3761086.4	203.5	3.66	1.40
2.89 YES							
L0043788	0	0.00000E+00	441845.1	3761086.4	203.5	3.66	1.40
2.89 YES							
L0043789	0	0.00000E+00	441848.1	3761086.4	203.4	3.66	1.40
2.89 YES							
L0043790	0	0.00000E+00	441851.1	3761086.4	203.4	3.66	1.40
2.89 YES							
L0043791	0	0.00000E+00	441854.1	3761086.4	203.4	3.66	1.40
2.89 YES							
L0043792	0	0.00000E+00	441857.1	3761086.3	203.4	3.66	1.40
2.89 YES							
L0043793	0	0.00000E+00	441860.1	3761086.3	203.3	3.66	1.40
2.89 YES							
L0043794	0	0.00000E+00	441863.1	3761086.3	203.3	3.66	1.40
2.89 YES							
L0043795	0	0.00000E+00	441866.1	3761086.3	203.3	3.66	1.40
2.89 YES							
L0043796	0	0.00000E+00	441869.1	3761086.3	203.3	3.66	1.40
2.89 YES							
L0043797	0	0.00000E+00	441872.1	3761086.2	203.3	3.66	1.40
2.89 YES							
L0043798	0	0.00000E+00	441875.1	3761086.2	203.3	3.66	1.40
2.89 YES							
L0043799	0	0.00000E+00	441878.1	3761086.2	203.3	3.66	1.40
2.89 YES							
L0043800	0	0.00000E+00	441881.1	3761086.2	203.4	3.66	1.40
2.89 YES							
L0043801	0	0.00000E+00	441884.1	3761086.2	203.4	3.66	1.40
2.89 YES							
L0043802	0	0.00000E+00	441887.1	3761086.2	203.5	3.66	1.40
2.89 YES							
L0043803	0	0.00000E+00	441890.1	3761086.1	203.5	3.66	1.40
2.89 YES							
L0043804	0	0.00000E+00	441893.1	3761086.1	203.6	3.66	1.40
2.89 YES							
L0043805	0	0.00000E+00	441896.1	3761086.1	203.6	3.66	1.40
2.89 YES							

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L0043806	0	0.00000E+00	441899.1	3761086.1	203.7	3.66	1.40
2.89 YES							
L0043807	0	0.00000E+00	441902.1	3761086.1	203.7	3.66	1.40
2.89 YES							
L0043808	0	0.00000E+00	441905.1	3761086.0	203.8	3.66	1.40
2.89 YES							
L0043809	0	0.00000E+00	441908.1	3761086.0	203.8	3.66	1.40
2.89 YES							
L0043810	0	0.00000E+00	441911.1	3761086.0	203.9	3.66	1.40
2.89 YES							
L0043811	0	0.00000E+00	441624.2	3760908.8	202.6	3.66	1.40
2.89 YES							
L0043812	0	0.00000E+00	441627.2	3760908.8	202.6	3.66	1.40
2.89 YES							
L0043813	0	0.00000E+00	441630.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043814	0	0.00000E+00	441633.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043815	0	0.00000E+00	441636.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043816	0	0.00000E+00	441639.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043817	0	0.00000E+00	441642.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043818	0	0.00000E+00	441645.2	3760908.9	202.5	3.66	1.40
2.89 YES							
L0043819	0	0.00000E+00	441648.2	3760908.9	202.4	3.66	1.40
2.89 YES							
L0043820	0	0.00000E+00	441651.2	3760908.9	202.4	3.66	1.40
2.89 YES							
L0043821	0	0.00000E+00	441654.2	3760908.9	202.4	3.66	1.40
2.89 YES							
L0043822	0	0.00000E+00	441657.2	3760909.0	202.4	3.66	1.40
2.89 YES							
L0043823	0	0.00000E+00	441660.2	3760909.0	202.4	3.66	1.40
2.89 YES							

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.

SOL\_operations\_rev2.ADO

INIT. SOURCE SZ	URBAN SOURCE ID	EMISSION RATE PART. SCALAR	EMISSION RATE (GRAMS/SEC) VARY	X	Y	ELEV.	HEIGHT	SY
		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0043824		0	0.00000E+00	441663.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043825		0	0.00000E+00	441666.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043826		0	0.00000E+00	441669.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043827		0	0.00000E+00	441672.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043828		0	0.00000E+00	441675.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043829		0	0.00000E+00	441678.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043830		0	0.00000E+00	441681.2	3760909.0	202.4	3.66	1.40
2.89	YES							
L0043831		0	0.00000E+00	441684.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043832		0	0.00000E+00	441687.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043833		0	0.00000E+00	441690.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043834		0	0.00000E+00	441693.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043835		0	0.00000E+00	441696.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043836		0	0.00000E+00	441699.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043837		0	0.00000E+00	441702.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043838		0	0.00000E+00	441705.2	3760909.1	202.3	3.66	1.40
2.89	YES							
L0043839		0	0.00000E+00	441708.2	3760909.2	202.3	3.66	1.40
2.89	YES							
L0043840		0	0.00000E+00	441711.2	3760909.2	202.3	3.66	1.40
2.89	YES							
L0043841		0	0.00000E+00	441714.2	3760909.2	202.3	3.66	1.40
2.89	YES							
L0043842		0	0.00000E+00	441717.2	3760909.2	202.3	3.66	1.40
2.89	YES							
L0043843		0	0.00000E+00	441720.2	3760909.2	202.3	3.66	1.40
2.89	YES							

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L0043844	0	0.00000E+00	441723.2	3760909.2	202.3	3.66	1.40
2.89	YES						
L0043845	0	0.00000E+00	441726.2	3760909.2	202.4	3.66	1.40
2.89	YES						
L0043846	0	0.00000E+00	441729.2	3760909.2	202.4	3.66	1.40
2.89	YES						
L0043847	0	0.00000E+00	441732.2	3760909.2	202.4	3.66	1.40
2.89	YES						
L0043848	0	0.00000E+00	441735.2	3760909.3	202.4	3.66	1.40
2.89	YES						
L0043849	0	0.00000E+00	441738.2	3760909.3	202.5	3.66	1.40
2.89	YES						
L0043850	0	0.00000E+00	441741.2	3760909.3	202.5	3.66	1.40
2.89	YES						
L0043851	0	0.00000E+00	441744.2	3760909.3	202.5	3.66	1.40
2.89	YES						
L0043852	0	0.00000E+00	441747.2	3760909.3	202.5	3.66	1.40
2.89	YES						
L0043853	0	0.00000E+00	441750.2	3760909.3	202.6	3.66	1.40
2.89	YES						
L0043854	0	0.00000E+00	441753.2	3760909.3	202.6	3.66	1.40
2.89	YES						
L0043855	0	0.00000E+00	441756.2	3760909.3	202.6	3.66	1.40
2.89	YES						
L0043856	0	0.00000E+00	441759.2	3760909.3	202.6	3.66	1.40
2.89	YES						
L0043857	0	0.00000E+00	441762.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043858	0	0.00000E+00	441765.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043859	0	0.00000E+00	441768.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043860	0	0.00000E+00	441771.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043861	0	0.00000E+00	441774.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043862	0	0.00000E+00	441777.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043863	0	0.00000E+00	441780.2	3760909.4	202.7	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

SOL\_operations\_rev2.ADO

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER EMISSION RATE	BASE	RELEASE	INIT.		
SOURCE	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	
SZ	SOURCE	PART. (GRAMS/SEC)					
ID	SCALAR VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	BY						
L0043864	0	0.00000E+00	441783.2	3760909.4	202.7	3.66	1.40
2.89	YES						
L0043865	0	0.00000E+00	441786.2	3760909.4	202.8	3.66	1.40
2.89	YES						
L0043866	0	0.00000E+00	441789.2	3760909.5	202.8	3.66	1.40
2.89	YES						
L0043867	0	0.00000E+00	441792.2	3760909.5	202.8	3.66	1.40
2.89	YES						
L0043868	0	0.00000E+00	441795.2	3760909.5	202.8	3.66	1.40
2.89	YES						
L0043869	0	0.00000E+00	441798.2	3760909.5	202.8	3.66	1.40
2.89	YES						
L0043870	0	0.00000E+00	441801.2	3760909.5	202.8	3.66	1.40
2.89	YES						
L0043871	0	0.00000E+00	441804.2	3760909.5	202.7	3.66	1.40
2.89	YES						
L0043872	0	0.00000E+00	441807.2	3760909.5	202.7	3.66	1.40
2.89	YES						
L0043873	0	0.00000E+00	441810.2	3760909.5	202.7	3.66	1.40
2.89	YES						
L0043874	0	0.00000E+00	441813.2	3760909.5	202.7	3.66	1.40
2.89	YES						
L0043875	0	0.00000E+00	441816.2	3760909.6	202.6	3.66	1.40
2.89	YES						
L0043876	0	0.00000E+00	441819.2	3760909.6	202.6	3.66	1.40
2.89	YES						
L0043877	0	0.00000E+00	441822.2	3760909.6	202.6	3.66	1.40
2.89	YES						
L0043878	0	0.00000E+00	441825.2	3760909.6	202.6	3.66	1.40
2.89	YES						
L0043879	0	0.00000E+00	441828.2	3760909.6	202.5	3.66	1.40
2.89	YES						
L0043880	0	0.00000E+00	441831.2	3760909.6	202.5	3.66	1.40
2.89	YES						
L0043881	0	0.00000E+00	441834.2	3760909.6	202.5	3.66	1.40
2.89	YES						

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L0043882	0	0.00000E+00	441837.2	3760909.6	202.4	3.66	1.40
2.89 YES							
L0043883	0	0.00000E+00	441840.2	3760909.7	202.4	3.66	1.40
2.89 YES							
L0043884	0	0.00000E+00	441843.2	3760909.7	202.4	3.66	1.40
2.89 YES							
L0043885	0	0.00000E+00	441846.2	3760909.7	202.4	3.66	1.40
2.89 YES							
L0043886	0	0.00000E+00	441849.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043887	0	0.00000E+00	441852.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043888	0	0.00000E+00	441855.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043889	0	0.00000E+00	441858.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043890	0	0.00000E+00	441861.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043891	0	0.00000E+00	441864.2	3760909.7	202.3	3.66	1.40
2.89 YES							
L0043892	0	0.00000E+00	441867.2	3760909.8	202.3	3.66	1.40
2.89 YES							
L0043893	0	0.00000E+00	441870.2	3760909.8	202.3	3.66	1.40
2.89 YES							
L0043894	0	0.00000E+00	441873.2	3760909.8	202.4	3.66	1.40
2.89 YES							
L0043895	0	0.00000E+00	441876.2	3760909.8	202.4	3.66	1.40
2.89 YES							
L0043896	0	0.00000E+00	441879.2	3760909.8	202.4	3.66	1.40
2.89 YES							
L0043897	0	0.00000E+00	441882.2	3760909.8	202.4	3.66	1.40
2.89 YES							
L0043898	0	0.00000E+00	441885.2	3760909.8	202.5	3.66	1.40
2.89 YES							
L0043899	0	0.00000E+00	441888.2	3760909.8	202.5	3.66	1.40
2.89 YES							
L0043900	0	0.00000E+00	441891.2	3760909.8	202.6	3.66	1.40
2.89 YES							
L0043901	0	0.00000E+00	441894.2	3760909.9	202.6	3.66	1.40
2.89 YES							
L0043902	0	0.00000E+00	441897.2	3760909.9	202.6	3.66	1.40
2.89 YES							
L0043903	0	0.00000E+00	441900.2	3760909.9	202.7	3.66	1.40
2.89 YES							

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      17:50:42

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0043904		0	0.00000E+00	441903.2	3760909.9	202.7	3.66	1.40
2.89	YES							
L0043905		0	0.00000E+00	441906.2	3760909.9	202.8	3.66	1.40
2.89	YES							
L0043906		0	0.00000E+00	441909.2	3760909.9	202.8	3.66	1.40
2.89	YES							
L0043907		0	0.00000E+00	441902.9	3760783.4	201.8	3.66	1.40
2.89	YES							
L0043908		0	0.00000E+00	441899.9	3760783.5	201.8	3.66	1.40
2.89	YES							
L0043909		0	0.00000E+00	441896.9	3760783.5	201.7	3.66	1.40
2.89	YES							
L0043910		0	0.00000E+00	441893.9	3760783.6	201.7	3.66	1.40
2.89	YES							
L0043911		0	0.00000E+00	441890.9	3760783.7	201.7	3.66	1.40
2.89	YES							
L0043912		0	0.00000E+00	441887.9	3760783.7	201.7	3.66	1.40
2.89	YES							
L0043913		0	0.00000E+00	441884.9	3760783.8	201.7	3.66	1.40
2.89	YES							
L0043914		0	0.00000E+00	441881.9	3760783.9	201.6	3.66	1.40
2.89	YES							
L0043915		0	0.00000E+00	441878.9	3760783.9	201.6	3.66	1.40
2.89	YES							
L0043916		0	0.00000E+00	441875.9	3760784.0	201.6	3.66	1.40
2.89	YES							
L0043917		0	0.00000E+00	441872.9	3760784.0	201.6	3.66	1.40
2.89	YES							
L0043918		0	0.00000E+00	441869.9	3760784.1	201.6	3.66	1.40
2.89	YES							
L0043919		0	0.00000E+00	441866.9	3760784.2	201.6	3.66	1.40
2.89	YES							

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L0043920	0	0.00000E+00	441863.9	3760784.2	201.6	3.66	1.40
2.89 YES							
L0043921	0	0.00000E+00	441860.9	3760784.3	201.6	3.66	1.40
2.89 YES							
L0043922	0	0.00000E+00	441857.9	3760784.4	201.6	3.66	1.40
2.89 YES							
L0043923	0	0.00000E+00	441854.9	3760784.4	201.6	3.66	1.40
2.89 YES							
L0043924	0	0.00000E+00	441851.9	3760784.5	201.5	3.66	1.40
2.89 YES							
L0043925	0	0.00000E+00	441848.9	3760784.6	201.5	3.66	1.40
2.89 YES							
L0043926	0	0.00000E+00	441845.9	3760784.6	201.5	3.66	1.40
2.89 YES							
L0043927	0	0.00000E+00	441842.9	3760784.7	201.5	3.66	1.40
2.89 YES							
L0043928	0	0.00000E+00	441839.9	3760784.7	201.5	3.66	1.40
2.89 YES							
L0043929	0	0.00000E+00	441836.9	3760784.8	201.5	3.66	1.40
2.89 YES							
L0043930	0	0.00000E+00	441833.9	3760784.9	201.5	3.66	1.40
2.89 YES							
L0043931	0	0.00000E+00	441830.9	3760784.9	201.5	3.66	1.40
2.89 YES							
L0043932	0	0.00000E+00	441827.9	3760785.0	201.5	3.66	1.40
2.89 YES							
L0043933	0	0.00000E+00	441824.9	3760785.1	201.5	3.66	1.40
2.89 YES							
L0043934	0	0.00000E+00	441821.9	3760785.1	201.5	3.66	1.40
2.89 YES							
L0043935	0	0.00000E+00	441818.9	3760785.2	201.5	3.66	1.40
2.89 YES							
L0043936	0	0.00000E+00	441815.9	3760785.3	201.5	3.66	1.40
2.89 YES							
L0043937	0	0.00000E+00	441812.9	3760785.3	201.5	3.66	1.40
2.89 YES							
L0043938	0	0.00000E+00	441809.9	3760785.4	201.5	3.66	1.40
2.89 YES							
L0043939	0	0.00000E+00	441806.9	3760785.4	201.5	3.66	1.40
2.89 YES							
L0043940	0	0.00000E+00	441803.9	3760785.5	201.4	3.66	1.40
2.89 YES							
L0043941	0	0.00000E+00	441800.9	3760785.6	201.4	3.66	1.40
2.89 YES							
L0043942	0	0.00000E+00	441797.9	3760785.6	201.4	3.66	1.40
2.89 YES							
L0043943	0	0.00000E+00	441794.9	3760785.7	201.4	3.66	1.40
2.89 YES							



SOL\_operations\_rev2.ADO

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
ID		PART.	(GRAMS/SEC)	X	Y		
(METERS)		SCALAR	VARY	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY				
L0043944		0	0.00000E+00	441791.9	3760785.8	201.4	1.40
2.89	YES						
L0043945		0	0.00000E+00	441788.9	3760785.8	201.5	1.40
2.89	YES						
L0043946		0	0.00000E+00	441785.9	3760785.9	201.5	1.40
2.89	YES						
L0043947		0	0.00000E+00	441782.9	3760786.0	201.5	1.40
2.89	YES						
L0043948		0	0.00000E+00	441779.9	3760786.0	201.5	1.40
2.89	YES						
L0043949		0	0.00000E+00	441776.9	3760786.1	201.5	1.40
2.89	YES						
L0043950		0	0.00000E+00	441773.9	3760786.1	201.5	1.40
2.89	YES						
L0043951		0	0.00000E+00	441770.9	3760786.2	201.5	1.40
2.89	YES						
L0043952		0	0.00000E+00	441767.9	3760786.3	201.5	1.40
2.89	YES						
L0043953		0	0.00000E+00	441764.9	3760786.3	201.5	1.40
2.89	YES						
L0043954		0	0.00000E+00	441761.9	3760786.4	201.5	1.40
2.89	YES						
L0043955		0	0.00000E+00	441758.9	3760786.5	201.4	1.40
2.89	YES						
L0043956		0	0.00000E+00	441755.9	3760786.5	201.4	1.40
2.89	YES						
L0043957		0	0.00000E+00	441752.9	3760786.6	201.4	1.40
2.89	YES						

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L0043958	0	0.00000E+00	441749.9	3760786.7	201.4	3.66	1.40
2.89	YES						
L0043959	0	0.00000E+00	441746.9	3760786.7	201.4	3.66	1.40
2.89	YES						
L0043960	0	0.00000E+00	441743.9	3760786.8	201.4	3.66	1.40
2.89	YES						
L0043961	0	0.00000E+00	441740.9	3760786.8	201.4	3.66	1.40
2.89	YES						
L0043962	0	0.00000E+00	441737.9	3760786.9	201.4	3.66	1.40
2.89	YES						
L0043963	0	0.00000E+00	441734.9	3760787.0	201.4	3.66	1.40
2.89	YES						
L0043964	0	0.00000E+00	441731.9	3760787.0	201.4	3.66	1.40
2.89	YES						
L0043965	0	0.00000E+00	441728.9	3760787.1	201.4	3.66	1.40
2.89	YES						
L0043966	0	0.00000E+00	441725.9	3760787.2	201.4	3.66	1.40
2.89	YES						
L0043967	0	0.00000E+00	441722.9	3760787.2	201.4	3.66	1.40
2.89	YES						
L0043968	0	0.00000E+00	441719.9	3760787.3	201.4	3.66	1.40
2.89	YES						
L0043969	0	0.00000E+00	441716.9	3760787.4	201.4	3.66	1.40
2.89	YES						
L0043970	0	0.00000E+00	441713.9	3760787.4	201.4	3.66	1.40
2.89	YES						
L0043971	0	0.00000E+00	441710.9	3760787.5	201.4	3.66	1.40
2.89	YES						
L0043972	0	0.00000E+00	441707.9	3760787.5	201.4	3.66	1.40
2.89	YES						
L0043973	0	0.00000E+00	441704.9	3760787.6	201.4	3.66	1.40
2.89	YES						
L0043974	0	0.00000E+00	441701.9	3760787.7	201.3	3.66	1.40
2.89	YES						
L0043975	0	0.00000E+00	441698.9	3760787.7	201.3	3.66	1.40
2.89	YES						
L0043976	0	0.00000E+00	441695.9	3760787.8	201.3	3.66	1.40
2.89	YES						
L0043977	0	0.00000E+00	441692.9	3760787.9	201.3	3.66	1.40
2.89	YES						
L0043978	0	0.00000E+00	441689.9	3760787.9	201.3	3.66	1.40
2.89	YES						
L0043979	0	0.00000E+00	441686.9	3760788.0	201.3	3.66	1.40
2.89	YES						
L0043980	0	0.00000E+00	441683.9	3760788.1	201.3	3.66	1.40
2.89	YES						
L0043981	0	0.00000E+00	441680.9	3760788.1	201.3	3.66	1.40
2.89	YES						

SOL\_operations\_rev2.ADO

L0043982           0   0.00000E+00 441677.9 3760788.2   201.2       3.66       1.40  
 2.89    YES  
 L0043983           0   0.00000E+00 441674.9 3760788.2   201.2       3.66       1.40  
 2.89    YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*       \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc       \*\*\*               03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*       \*\*\*  
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\*\*\* MODELOPTs:    RegDFault   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0043984	0	0.00000E+00	441671.9	3760788.3	201.2	3.66	1.40
2.89	YES						
L0043985	0	0.00000E+00	441668.9	3760788.4	201.2	3.66	1.40
2.89	YES						
L0043986	0	0.00000E+00	441665.9	3760788.4	201.2	3.66	1.40
2.89	YES						
L0043987	0	0.00000E+00	441662.9	3760788.5	201.2	3.66	1.40
2.89	YES						
L0043988	0	0.00000E+00	441659.9	3760788.6	201.2	3.66	1.40
2.89	YES						
L0043989	0	0.00000E+00	441656.9	3760788.6	201.2	3.66	1.40
2.89	YES						
L0043990	0	0.00000E+00	441653.9	3760788.7	201.2	3.66	1.40
2.89	YES						
L0043991	0	0.00000E+00	441650.9	3760788.8	201.2	3.66	1.40
2.89	YES						
L0043992	0	0.00000E+00	441647.9	3760788.8	201.2	3.66	1.40
2.89	YES						
L0043993	0	0.00000E+00	441644.9	3760788.9	201.2	3.66	1.40
2.89	YES						
L0043994	0	0.00000E+00	441641.9	3760788.9	201.2	3.66	1.40
2.89	YES						
L0043995	0	0.00000E+00	441638.9	3760789.0	201.2	3.66	1.40
2.89	YES						

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L0043996	0	0.00000E+00	441635.9	3760789.1	201.3	3.66	1.40
2.89	YES						
L0043997	0	0.00000E+00	441632.9	3760789.1	201.3	3.66	1.40
2.89	YES						
L0043998	0	0.00000E+00	441629.9	3760789.2	201.3	3.66	1.40
2.89	YES						
L0043999	0	0.00000E+00	441626.9	3760789.3	201.3	3.66	1.40
2.89	YES						
L0044000	0	0.00000E+00	441623.9	3760789.3	201.3	3.66	1.40
2.89	YES						
L0044001	0	0.00000E+00	441620.9	3760789.4	201.3	3.66	1.40
2.89	YES						
L0044002	0	0.00000E+00	441617.9	3760789.5	201.4	3.66	1.40
2.89	YES						
L0044003	0	0.00000E+00	441614.9	3760789.5	201.4	3.66	1.40
2.89	YES						
L0044004	0	0.00000E+00	441611.9	3760789.6	201.4	3.66	1.40
2.89	YES						
L0044005	0	0.00000E+00	441290.6	3761089.7	203.2	3.66	1.40
2.89	YES						
L0044006	0	0.00000E+00	441290.6	3761086.7	203.2	3.66	1.40
2.89	YES						
L0044007	0	0.00000E+00	441290.6	3761083.7	203.2	3.66	1.40
2.89	YES						
L0044008	0	0.00000E+00	441290.6	3761080.7	203.2	3.66	1.40
2.89	YES						
L0044009	0	0.00000E+00	441290.6	3761077.7	203.1	3.66	1.40
2.89	YES						
L0044010	0	0.00000E+00	441290.6	3761074.7	203.1	3.66	1.40
2.89	YES						
L0044011	0	0.00000E+00	441290.6	3761071.7	203.1	3.66	1.40
2.89	YES						
L0044012	0	0.00000E+00	441290.6	3761068.7	203.1	3.66	1.40
2.89	YES						
L0044013	0	0.00000E+00	441290.6	3761065.7	203.1	3.66	1.40
2.89	YES						
L0044014	0	0.00000E+00	441290.6	3761062.7	203.0	3.66	1.40
2.89	YES						
L0044015	0	0.00000E+00	441290.6	3761059.7	203.0	3.66	1.40
2.89	YES						
L0044016	0	0.00000E+00	441290.6	3761056.7	203.0	3.66	1.40
2.89	YES						
L0044017	0	0.00000E+00	441290.6	3761053.7	203.0	3.66	1.40
2.89	YES						
L0044018	0	0.00000E+00	441290.6	3761050.7	203.0	3.66	1.40
2.89	YES						
L0044019	0	0.00000E+00	441290.6	3761047.7	202.9	3.66	1.40
2.89	YES						

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L0044020	0	0.00000E+00	441290.6	3761044.7	202.9	3.66	1.40
2.89	YES						
L0044021	0	0.00000E+00	441290.6	3761041.7	202.9	3.66	1.40
2.89	YES						
L0044022	0	0.00000E+00	441290.6	3761038.7	202.9	3.66	1.40
2.89	YES						
L0044023	0	0.00000E+00	441290.6	3761035.7	202.9	3.66	1.40
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0044024	0	0.00000E+00	441290.6	3761032.7	202.8	3.66	1.40
2.89	YES						
L0044025	0	0.00000E+00	441290.6	3761029.7	202.8	3.66	1.40
2.89	YES						
L0044026	0	0.00000E+00	441290.6	3761026.7	202.8	3.66	1.40
2.89	YES						
L0044027	0	0.00000E+00	441290.6	3761023.7	202.8	3.66	1.40
2.89	YES						
L0044028	0	0.00000E+00	441290.6	3761020.7	202.8	3.66	1.40
2.89	YES						
L0044029	0	0.00000E+00	441290.6	3761017.7	202.7	3.66	1.40
2.89	YES						
L0044030	0	0.00000E+00	441290.6	3761014.7	202.7	3.66	1.40
2.89	YES						
L0044031	0	0.00000E+00	441290.6	3761011.7	202.7	3.66	1.40
2.89	YES						
L0044032	0	0.00000E+00	441290.6	3761008.7	202.7	3.66	1.40
2.89	YES						
L0044033	0	0.00000E+00	441290.6	3761005.7	202.7	3.66	1.40
2.89	YES						

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L0044034	0	0.00000E+00	441290.6	3761002.7	202.6	3.66	1.40
2.89	YES						
L0044035	0	0.00000E+00	441290.6	3760999.7	202.6	3.66	1.40
2.89	YES						
L0044036	0	0.00000E+00	441290.6	3760996.7	202.6	3.66	1.40
2.89	YES						
L0044037	0	0.00000E+00	441290.6	3760993.7	202.6	3.66	1.40
2.89	YES						
L0044038	0	0.00000E+00	441290.6	3760990.7	202.6	3.66	1.40
2.89	YES						
L0044039	0	0.00000E+00	441290.6	3760987.7	202.6	3.66	1.40
2.89	YES						
L0044040	0	0.00000E+00	441290.6	3760984.7	202.5	3.66	1.40
2.89	YES						
L0044041	0	0.00000E+00	441290.6	3760981.7	202.5	3.66	1.40
2.89	YES						
L0044042	0	0.00000E+00	441290.6	3760978.7	202.5	3.66	1.40
2.89	YES						
L0044043	0	0.00000E+00	441290.6	3760975.7	202.5	3.66	1.40
2.89	YES						
L0044044	0	0.00000E+00	441290.6	3760972.7	202.5	3.66	1.40
2.89	YES						
L0044045	0	0.00000E+00	441290.6	3760969.7	202.4	3.66	1.40
2.89	YES						
L0044046	0	0.00000E+00	441290.6	3760966.7	202.4	3.66	1.40
2.89	YES						
L0044047	0	0.00000E+00	441290.6	3760963.7	202.4	3.66	1.40
2.89	YES						
L0044048	0	0.00000E+00	441290.6	3760960.7	202.4	3.66	1.40
2.89	YES						
L0044049	0	0.00000E+00	441290.6	3760957.7	202.4	3.66	1.40
2.89	YES						
L0044050	0	0.00000E+00	441290.6	3760954.7	202.4	3.66	1.40
2.89	YES						
L0044051	0	0.00000E+00	441290.6	3760951.7	202.3	3.66	1.40
2.89	YES						
L0044052	0	0.00000E+00	441290.6	3760948.7	202.3	3.66	1.40
2.89	YES						
L0044053	0	0.00000E+00	441290.6	3760945.7	202.3	3.66	1.40
2.89	YES						
L0044054	0	0.00000E+00	441290.6	3760942.7	202.3	3.66	1.40
2.89	YES						
L0044055	0	0.00000E+00	441290.6	3760939.7	202.3	3.66	1.40
2.89	YES						
L0044056	0	0.00000E+00	441290.6	3760936.7	202.2	3.66	1.40
2.89	YES						
L0044057	0	0.00000E+00	441290.6	3760933.7	202.2	3.66	1.40
2.89	YES						

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L0044058	0	0.00000E+00	441290.6	3760930.7	202.2	3.66	1.40
2.89	YES						
L0044059	0	0.00000E+00	441290.6	3760927.7	202.2	3.66	1.40
2.89	YES						
L0044060	0	0.00000E+00	441290.6	3760924.7	202.2	3.66	1.40
2.89	YES						
L0044061	0	0.00000E+00	441290.6	3760921.7	202.2	3.66	1.40
2.89	YES						
L0044062	0	0.00000E+00	441290.6	3760918.7	202.1	3.66	1.40
2.89	YES						
L0044063	0	0.00000E+00	441290.6	3760915.7	202.1	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						
L0044064	0	0.00000E+00	441290.6	3760912.7	202.1	3.66	1.40		
2.89	YES								
L0044065	0	0.00000E+00	441290.6	3760909.7	202.1	3.66	1.40		
2.89	YES								
L0044066	0	0.00000E+00	441290.6	3760906.7	202.1	3.66	1.40		
2.89	YES								
L0044067	0	0.00000E+00	441290.6	3760903.7	202.0	3.66	1.40		
2.89	YES								
L0044068	0	0.00000E+00	441290.6	3760900.7	202.0	3.66	1.40		
2.89	YES								
L0044069	0	0.00000E+00	441290.6	3760897.7	202.0	3.66	1.40		
2.89	YES								
L0044070	0	0.00000E+00	441290.6	3760894.7	202.0	3.66	1.40		
2.89	YES								
L0044071	0	0.00000E+00	441290.6	3760891.7	202.0	3.66	1.40		
2.89	YES								

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L0044072	0	0.00000E+00	441290.6	3760888.7	201.9	3.66	1.40
2.89	YES						
L0044073	0	0.00000E+00	441290.6	3760885.7	201.9	3.66	1.40
2.89	YES						
L0044074	0	0.00000E+00	441290.6	3760882.7	201.9	3.66	1.40
2.89	YES						
L0044075	0	0.00000E+00	441290.6	3760879.7	201.9	3.66	1.40
2.89	YES						
L0044076	0	0.00000E+00	441290.6	3760876.7	201.9	3.66	1.40
2.89	YES						
L0044077	0	0.00000E+00	441290.6	3760873.7	201.8	3.66	1.40
2.89	YES						
L0044078	0	0.00000E+00	441290.6	3760870.7	201.8	3.66	1.40
2.89	YES						
L0044079	0	0.00000E+00	441290.6	3760867.7	201.8	3.66	1.40
2.89	YES						
L0044080	0	0.00000E+00	441290.6	3760864.7	201.8	3.66	1.40
2.89	YES						
L0044081	0	0.00000E+00	441290.6	3760861.7	201.8	3.66	1.40
2.89	YES						
L0044082	0	0.00000E+00	441290.6	3760858.7	201.8	3.66	1.40
2.89	YES						
L0044083	0	0.00000E+00	441290.6	3760855.7	201.7	3.66	1.40
2.89	YES						
L0044084	0	0.00000E+00	441290.6	3760852.7	201.7	3.66	1.40
2.89	YES						
L0044085	0	0.00000E+00	441290.6	3760849.7	201.7	3.66	1.40
2.89	YES						
L0044086	0	0.00000E+00	441290.6	3760846.7	201.7	3.66	1.40
2.89	YES						
L0044087	0	0.00000E+00	441290.6	3760843.7	201.7	3.66	1.40
2.89	YES						
L0044088	0	0.00000E+00	441290.6	3760840.7	201.6	3.66	1.40
2.89	YES						
L0044089	0	0.00000E+00	441290.6	3760837.7	201.6	3.66	1.40
2.89	YES						
L0044090	0	0.00000E+00	441290.6	3760834.7	201.6	3.66	1.40
2.89	YES						
L0044091	0	0.00000E+00	441290.6	3760831.7	201.6	3.66	1.40
2.89	YES						
L0044092	0	0.00000E+00	441290.6	3760828.7	201.6	3.66	1.40
2.89	YES						
L0044093	0	0.00000E+00	441290.6	3760825.7	201.5	3.66	1.40
2.89	YES						
L0044094	0	0.00000E+00	441290.6	3760822.7	201.5	3.66	1.40
2.89	YES						
L0044095	0	0.00000E+00	441290.6	3760819.7	201.5	3.66	1.40
2.89	YES						



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L0044096	0	0.00000E+00	441290.6	3760816.7	201.5	3.66	1.40
2.89	YES						
L0044097	0	0.00000E+00	441290.6	3760813.7	201.5	3.66	1.40
2.89	YES						
L0044098	0	0.00000E+00	441290.6	3760810.7	201.4	3.66	1.40
2.89	YES						
L0044099	0	0.00000E+00	441290.6	3760807.7	201.4	3.66	1.40
2.89	YES						
L0044100	0	0.00000E+00	441290.6	3760804.7	201.4	3.66	1.40
2.89	YES						
L0044101	0	0.00000E+00	441290.6	3760801.7	201.4	3.66	1.40
2.89	YES						
L0044102	0	0.00000E+00	441290.6	3760798.7	201.4	3.66	1.40
2.89	YES						
L0044103	0	0.00000E+00	441290.6	3760795.7	201.3	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0044104	0	0.00000E+00	441290.6	3760792.7	201.3	3.66	1.40
2.89	YES						
L0044105	0	0.00000E+00	441290.6	3760789.7	201.3	3.66	1.40
2.89	YES						
L0044106	0	0.00000E+00	441290.6	3760786.7	201.3	3.66	1.40
2.89	YES						
L0044107	0	0.00000E+00	441290.6	3760783.7	201.3	3.66	1.40
2.89	YES						
L0044108	0	0.00000E+00	441290.6	3760780.7	201.2	3.66	1.40
2.89	YES						
L0044109	0	0.00000E+00	441290.6	3760777.7	201.2	3.66	1.40
2.89	YES						

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L0044110	0	0.00000E+00	441290.6	3760774.7	201.2	3.66	1.40
2.89	YES						
L0044111	0	0.00000E+00	441290.6	3760771.7	201.2	3.66	1.40
2.89	YES						
L0044112	0	0.00000E+00	441290.6	3760768.7	201.2	3.66	1.40
2.89	YES						
L0044113	0	0.00000E+00	441290.6	3760765.7	201.2	3.66	1.40
2.89	YES						
L0044114	0	0.00000E+00	441290.6	3760762.7	201.1	3.66	1.40
2.89	YES						
L0044115	0	0.00000E+00	441290.6	3760759.7	201.1	3.66	1.40
2.89	YES						
L0044116	0	0.00000E+00	441290.6	3760756.7	201.1	3.66	1.40
2.89	YES						
L0044117	0	0.00000E+00	441290.6	3760753.7	201.1	3.66	1.40
2.89	YES						
L0044118	0	0.00000E+00	441290.6	3760750.7	201.1	3.66	1.40
2.89	YES						
L0044119	0	0.00000E+00	441290.6	3760747.7	201.0	3.66	1.40
2.89	YES						
L0044120	0	0.00000E+00	441290.6	3760744.7	201.0	3.66	1.40
2.89	YES						
L0044121	0	0.00000E+00	441290.6	3760741.7	201.0	3.66	1.40
2.89	YES						
L0044122	0	0.00000E+00	441290.6	3760738.7	201.0	3.66	1.40
2.89	YES						
L0044123	0	0.00000E+00	441290.6	3760735.7	201.0	3.66	1.40
2.89	YES						
L0044124	0	0.00000E+00	441290.6	3760732.7	200.9	3.66	1.40
2.89	YES						
L0044125	0	0.00000E+00	441290.6	3760729.7	200.9	3.66	1.40
2.89	YES						
L0044126	0	0.00000E+00	441290.6	3760726.7	200.9	3.66	1.40
2.89	YES						
L0044127	0	0.00000E+00	441290.6	3760723.7	200.9	3.66	1.40
2.89	YES						
L0044128	0	0.00000E+00	441290.6	3760720.7	200.9	3.66	1.40
2.89	YES						
L0044129	0	0.00000E+00	441290.6	3760717.7	200.9	3.66	1.40
2.89	YES						
L0044130	0	0.00000E+00	441290.6	3760714.7	200.8	3.66	1.40
2.89	YES						
L0044131	0	0.00000E+00	441290.6	3760711.7	200.8	3.66	1.40
2.89	YES						
L0044132	0	0.00000E+00	441290.6	3760708.7	200.8	3.66	1.40
2.89	YES						
L0044133	0	0.00000E+00	441290.6	3760705.7	200.8	3.66	1.40
2.89	YES						

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L0044134	0	0.00000E+00	441290.6	3760702.7	200.8	3.66	1.40
2.89	YES						
L0044135	0	0.00000E+00	441290.6	3760699.7	200.8	3.66	1.40
2.89	YES						
L0044136	0	0.00000E+00	441290.6	3760696.7	200.7	3.66	1.40
2.89	YES						
L0044137	0	0.00000E+00	441290.6	3760693.7	200.7	3.66	1.40
2.89	YES						
L0044138	0	0.00000E+00	441290.6	3760690.7	200.7	3.66	1.40
2.89	YES						
L0044139	0	0.00000E+00	441290.6	3760687.7	200.7	3.66	1.40
2.89	YES						
L0044140	0	0.00000E+00	441290.6	3760684.7	200.7	3.66	1.40
2.89	YES						
L0044141	0	0.00000E+00	441290.6	3760681.7	200.7	3.66	1.40
2.89	YES						
L0044142	0	0.00000E+00	441290.6	3760678.7	200.6	3.66	1.40
2.89	YES						
L0044143	0	0.00000E+00	441290.6	3760675.7	200.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0044144	0	0.00000E+00	441290.6	3760672.7	200.6	3.66	1.40
2.89	YES						
L0044145	0	0.00000E+00	441290.6	3760669.7	200.6	3.66	1.40
2.89	YES						
L0044146	0	0.00000E+00	441290.6	3760666.7	200.6	3.66	1.40
2.89	YES						
L0044147	0	0.00000E+00	441290.6	3760663.7	200.5	3.66	1.40
2.89	YES						

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L0044148	0	0.00000E+00	441290.6	3760660.7	200.5	3.66	1.40
2.89	YES						
L0044149	0	0.00000E+00	441290.6	3760657.7	200.5	3.66	1.40
2.89	YES						
L0044150	0	0.00000E+00	441290.6	3760654.7	200.5	3.66	1.40
2.89	YES						
L0044151	0	0.00000E+00	441290.6	3760651.7	200.5	3.66	1.40
2.89	YES						
L0044152	0	0.00000E+00	441290.6	3760648.7	200.5	3.66	1.40
2.89	YES						
L0044153	0	0.00000E+00	441290.6	3760645.7	200.5	3.66	1.40
2.89	YES						
L0044154	0	0.00000E+00	441290.6	3760642.7	200.4	3.66	1.40
2.89	YES						
L0044155	0	0.00000E+00	441290.6	3760639.7	200.4	3.66	1.40
2.89	YES						
L0044156	0	0.00000E+00	441290.6	3760636.7	200.4	3.66	1.40
2.89	YES						
L0044157	0	0.00000E+00	441290.6	3760633.7	200.4	3.66	1.40
2.89	YES						
L0044158	0	0.00000E+00	441290.6	3760630.7	200.4	3.66	1.40
2.89	YES						
L0044159	0	0.00000E+00	441290.6	3760627.7	200.4	3.66	1.40
2.89	YES						
L0044160	0	0.00000E+00	441290.6	3760624.7	200.4	3.66	1.40
2.89	YES						
L0044161	0	0.00000E+00	441290.6	3760621.7	200.3	3.66	1.40
2.89	YES						
L0044162	0	0.00000E+00	441290.6	3760618.7	200.3	3.66	1.40
2.89	YES						
L0044163	0	0.00000E+00	441290.6	3760615.7	200.3	3.66	1.40
2.89	YES						
L0044164	0	0.00000E+00	441290.6	3760612.7	200.3	3.66	1.40
2.89	YES						
L0044165	0	0.00000E+00	441290.6	3760609.7	200.3	3.66	1.40
2.89	YES						
L0044166	0	0.00000E+00	441290.6	3760606.7	200.3	3.66	1.40
2.89	YES						
L0044167	0	0.00000E+00	441290.6	3760603.7	200.3	3.66	1.40
2.89	YES						
L0044168	0	0.00000E+00	441290.6	3760600.7	200.2	3.66	1.40
2.89	YES						
L0044169	0	0.00000E+00	441290.6	3760597.7	200.2	3.66	1.40
2.89	YES						
L0044170	0	0.00000E+00	441290.6	3760594.7	200.2	3.66	1.40
2.89	YES						
L0044171	0	0.00000E+00	441471.5	3761091.1	203.3	3.66	1.40
2.89	YES						

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L0044172	0	0.00000E+00	441471.4	3761088.1	203.3	3.66	1.40
2.89	YES						
L0044173	0	0.00000E+00	441471.4	3761085.1	203.2	3.66	1.40
2.89	YES						
L0044174	0	0.00000E+00	441471.4	3761082.1	203.2	3.66	1.40
2.89	YES						
L0044175	0	0.00000E+00	441471.4	3761079.1	203.2	3.66	1.40
2.89	YES						
L0044176	0	0.00000E+00	441471.4	3761076.1	203.2	3.66	1.40
2.89	YES						
L0044177	0	0.00000E+00	441471.4	3761073.1	203.2	3.66	1.40
2.89	YES						
L0044178	0	0.00000E+00	441471.4	3761070.1	203.1	3.66	1.40
2.89	YES						
L0044179	0	0.00000E+00	441471.4	3761067.1	203.1	3.66	1.40
2.89	YES						
L0044180	0	0.00000E+00	441471.4	3761064.1	203.1	3.66	1.40
2.89	YES						
L0044181	0	0.00000E+00	441471.4	3761061.1	203.1	3.66	1.40
2.89	YES						
L0044182	0	0.00000E+00	441471.4	3761058.1	203.1	3.66	1.40
2.89	YES						
L0044183	0	0.00000E+00	441471.3	3761055.1	203.0	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0044184	0	0.00000E+00	441471.3	3761052.1	203.0	3.66	1.40
2.89	YES						
L0044185	0	0.00000E+00	441471.3	3761049.1	203.0	3.66	1.40
2.89	YES						

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L0044186	0	0.00000E+00	441471.3	3761046.1	203.0	3.66	1.40
2.89	YES						
L0044187	0	0.00000E+00	441471.3	3761043.1	202.9	3.66	1.40
2.89	YES						
L0044188	0	0.00000E+00	441471.3	3761040.1	202.9	3.66	1.40
2.89	YES						
L0044189	0	0.00000E+00	441471.3	3761037.1	202.9	3.66	1.40
2.89	YES						
L0044190	0	0.00000E+00	441471.3	3761034.1	202.9	3.66	1.40
2.89	YES						
L0044191	0	0.00000E+00	441471.3	3761031.1	202.9	3.66	1.40
2.89	YES						
L0044192	0	0.00000E+00	441471.3	3761028.1	202.8	3.66	1.40
2.89	YES						
L0044193	0	0.00000E+00	441471.3	3761025.1	202.8	3.66	1.40
2.89	YES						
L0044194	0	0.00000E+00	441471.2	3761022.1	202.8	3.66	1.40
2.89	YES						
L0044195	0	0.00000E+00	441471.2	3761019.1	202.8	3.66	1.40
2.89	YES						
L0044196	0	0.00000E+00	441471.2	3761016.1	202.7	3.66	1.40
2.89	YES						
L0044197	0	0.00000E+00	441471.2	3761013.1	202.7	3.66	1.40
2.89	YES						
L0044198	0	0.00000E+00	441471.2	3761010.1	202.7	3.66	1.40
2.89	YES						
L0044199	0	0.00000E+00	441471.2	3761007.1	202.6	3.66	1.40
2.89	YES						
L0044200	0	0.00000E+00	441471.2	3761004.1	202.6	3.66	1.40
2.89	YES						
L0044201	0	0.00000E+00	441471.2	3761001.1	202.6	3.66	1.40
2.89	YES						
L0044202	0	0.00000E+00	441471.2	3760998.1	202.6	3.66	1.40
2.89	YES						
L0044203	0	0.00000E+00	441471.2	3760995.1	202.5	3.66	1.40
2.89	YES						
L0044204	0	0.00000E+00	441471.2	3760992.1	202.5	3.66	1.40
2.89	YES						
L0044205	0	0.00000E+00	441471.1	3760989.1	202.5	3.66	1.40
2.89	YES						
L0044206	0	0.00000E+00	441471.1	3760986.1	202.4	3.66	1.40
2.89	YES						
L0044207	0	0.00000E+00	441471.1	3760983.1	202.4	3.66	1.40
2.89	YES						
L0044208	0	0.00000E+00	441471.1	3760980.1	202.4	3.66	1.40
2.89	YES						
L0044209	0	0.00000E+00	441471.1	3760977.1	202.3	3.66	1.40
2.89	YES						

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L0044210	0	0.00000E+00	441471.1	3760974.1	202.3	3.66	1.40
2.89	YES						
L0044211	0	0.00000E+00	441471.1	3760971.1	202.2	3.66	1.40
2.89	YES						
L0044212	0	0.00000E+00	441471.1	3760968.1	202.2	3.66	1.40
2.89	YES						
L0044213	0	0.00000E+00	441471.1	3760965.1	202.2	3.66	1.40
2.89	YES						
L0044214	0	0.00000E+00	441471.1	3760962.1	202.2	3.66	1.40
2.89	YES						
L0044215	0	0.00000E+00	441471.1	3760959.1	202.2	3.66	1.40
2.89	YES						
L0044216	0	0.00000E+00	441471.1	3760956.1	202.1	3.66	1.40
2.89	YES						
L0044217	0	0.00000E+00	441471.0	3760953.1	202.1	3.66	1.40
2.89	YES						
L0044218	0	0.00000E+00	441471.0	3760950.1	202.1	3.66	1.40
2.89	YES						
L0044219	0	0.00000E+00	441471.0	3760947.1	202.1	3.66	1.40
2.89	YES						
L0044220	0	0.00000E+00	441471.0	3760944.1	202.1	3.66	1.40
2.89	YES						
L0044221	0	0.00000E+00	441471.0	3760941.1	202.1	3.66	1.40
2.89	YES						
L0044222	0	0.00000E+00	441471.0	3760938.1	202.0	3.66	1.40
2.89	YES						
L0044223	0	0.00000E+00	441471.0	3760935.1	202.0	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

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L0044224	0	0.00000E+00	441471.0	3760932.1	202.0	3.66	1.40
2.89	YES						
L0044225	0	0.00000E+00	441471.0	3760929.1	202.0	3.66	1.40
2.89	YES						
L0044226	0	0.00000E+00	441471.0	3760926.1	202.0	3.66	1.40
2.89	YES						
L0044227	0	0.00000E+00	441471.0	3760923.1	202.0	3.66	1.40
2.89	YES						
L0044228	0	0.00000E+00	441470.9	3760920.1	202.0	3.66	1.40
2.89	YES						
L0044229	0	0.00000E+00	441470.9	3760917.1	202.0	3.66	1.40
2.89	YES						
L0044230	0	0.00000E+00	441470.9	3760914.1	202.0	3.66	1.40
2.89	YES						
L0044231	0	0.00000E+00	441470.9	3760911.1	202.0	3.66	1.40
2.89	YES						
L0044232	0	0.00000E+00	441470.9	3760908.1	201.9	3.66	1.40
2.89	YES						
L0044233	0	0.00000E+00	441470.9	3760905.1	201.9	3.66	1.40
2.89	YES						
L0044234	0	0.00000E+00	441470.9	3760902.1	201.9	3.66	1.40
2.89	YES						
L0044235	0	0.00000E+00	441470.9	3760899.1	202.0	3.66	1.40
2.89	YES						
L0044236	0	0.00000E+00	441470.9	3760896.1	202.0	3.66	1.40
2.89	YES						
L0044237	0	0.00000E+00	441470.9	3760893.1	202.0	3.66	1.40
2.89	YES						
L0044238	0	0.00000E+00	441470.9	3760890.1	202.0	3.66	1.40
2.89	YES						
L0044239	0	0.00000E+00	441470.8	3760887.1	202.0	3.66	1.40
2.89	YES						
L0044240	0	0.00000E+00	441470.8	3760884.1	202.0	3.66	1.40
2.89	YES						
L0044241	0	0.00000E+00	441470.8	3760881.1	202.1	3.66	1.40
2.89	YES						
L0044242	0	0.00000E+00	441470.8	3760878.1	202.1	3.66	1.40
2.89	YES						
L0044243	0	0.00000E+00	441470.8	3760875.1	202.1	3.66	1.40
2.89	YES						
L0044244	0	0.00000E+00	441470.8	3760872.1	202.1	3.66	1.40
2.89	YES						
L0044245	0	0.00000E+00	441470.8	3760869.1	202.1	3.66	1.40
2.89	YES						
L0044246	0	0.00000E+00	441470.8	3760866.1	202.1	3.66	1.40
2.89	YES						
L0044247	0	0.00000E+00	441470.8	3760863.1	202.1	3.66	1.40
2.89	YES						



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L0044248	0	0.00000E+00	441470.8	3760860.1	202.0	3.66	1.40
2.89	YES						
L0044249	0	0.00000E+00	441470.8	3760857.1	202.0	3.66	1.40
2.89	YES						
L0044250	0	0.00000E+00	441470.8	3760854.1	202.0	3.66	1.40
2.89	YES						
L0044251	0	0.00000E+00	441470.7	3760851.1	202.0	3.66	1.40
2.89	YES						
L0044252	0	0.00000E+00	441470.7	3760848.1	202.0	3.66	1.40
2.89	YES						
L0044253	0	0.00000E+00	441470.7	3760845.1	202.0	3.66	1.40
2.89	YES						
L0044254	0	0.00000E+00	441470.7	3760842.1	202.0	3.66	1.40
2.89	YES						
L0044255	0	0.00000E+00	441470.7	3760839.1	202.0	3.66	1.40
2.89	YES						
L0044256	0	0.00000E+00	441470.7	3760836.1	201.9	3.66	1.40
2.89	YES						
L0044257	0	0.00000E+00	441470.7	3760833.1	201.9	3.66	1.40
2.89	YES						
L0044258	0	0.00000E+00	441470.7	3760830.1	201.9	3.66	1.40
2.89	YES						
L0044259	0	0.00000E+00	441470.7	3760827.1	201.9	3.66	1.40
2.89	YES						
L0044260	0	0.00000E+00	441470.7	3760824.1	201.9	3.66	1.40
2.89	YES						
L0044261	0	0.00000E+00	441470.7	3760821.1	201.8	3.66	1.40
2.89	YES						
L0044262	0	0.00000E+00	441470.6	3760818.1	201.8	3.66	1.40
2.89	YES						
L0044263	0	0.00000E+00	441470.6	3760815.1	201.8	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)

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(METERS)

BY

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L0044264	0	0.00000E+00	441470.6	3760812.1	201.8	3.66	1.40
2.89 YES							
L0044265	0	0.00000E+00	441470.6	3760809.1	201.7	3.66	1.40
2.89 YES							
L0044266	0	0.00000E+00	441470.6	3760806.1	201.7	3.66	1.40
2.89 YES							
L0044267	0	0.00000E+00	441470.6	3760803.1	201.6	3.66	1.40
2.89 YES							
L0044268	0	0.00000E+00	441470.6	3760800.1	201.6	3.66	1.40
2.89 YES							
L0044269	0	0.00000E+00	441470.6	3760797.1	201.6	3.66	1.40
2.89 YES							
L0044270	0	0.00000E+00	441470.6	3760794.1	201.5	3.66	1.40
2.89 YES							
L0044271	0	0.00000E+00	441470.6	3760791.1	201.5	3.66	1.40
2.89 YES							
L0044272	0	0.00000E+00	441470.6	3760788.1	201.4	3.66	1.40
2.89 YES							
L0044273	0	0.00000E+00	441470.5	3760785.1	201.4	3.66	1.40
2.89 YES							
L0044274	0	0.00000E+00	441470.5	3760782.1	201.3	3.66	1.40
2.89 YES							
L0044275	0	0.00000E+00	441470.5	3760779.1	201.3	3.66	1.40
2.89 YES							
L0044276	0	0.00000E+00	441470.5	3760776.1	201.3	3.66	1.40
2.89 YES							
L0044277	0	0.00000E+00	441470.5	3760773.1	201.2	3.66	1.40
2.89 YES							
L0044278	0	0.00000E+00	441470.5	3760770.1	201.2	3.66	1.40
2.89 YES							
L0044279	0	0.00000E+00	441470.5	3760767.1	201.2	3.66	1.40
2.89 YES							
L0044280	0	0.00000E+00	441470.5	3760764.1	201.2	3.66	1.40
2.89 YES							
L0044281	0	0.00000E+00	441470.5	3760761.1	201.1	3.66	1.40
2.89 YES							
L0044282	0	0.00000E+00	441470.5	3760758.1	201.1	3.66	1.40
2.89 YES							
L0044283	0	0.00000E+00	441470.5	3760755.1	201.1	3.66	1.40
2.89 YES							
L0044284	0	0.00000E+00	441470.5	3760752.1	201.1	3.66	1.40
2.89 YES							
L0044285	0	0.00000E+00	441470.4	3760749.1	201.1	3.66	1.40
2.89 YES							

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L0044286	0	0.00000E+00	441470.4	3760746.1	201.0	3.66	1.40
2.89 YES							
L0044287	0	0.00000E+00	441470.4	3760743.1	201.0	3.66	1.40
2.89 YES							
L0044288	0	0.00000E+00	441470.4	3760740.1	201.0	3.66	1.40
2.89 YES							
L0044289	0	0.00000E+00	441470.4	3760737.1	201.0	3.66	1.40
2.89 YES							
L0044290	0	0.00000E+00	441470.4	3760734.1	201.0	3.66	1.40
2.89 YES							
L0044291	0	0.00000E+00	441470.4	3760731.1	201.0	3.66	1.40
2.89 YES							
L0044292	0	0.00000E+00	441470.4	3760728.1	200.9	3.66	1.40
2.89 YES							
L0044293	0	0.00000E+00	441470.4	3760725.1	200.9	3.66	1.40
2.89 YES							
L0044294	0	0.00000E+00	441470.4	3760722.1	200.9	3.66	1.40
2.89 YES							
L0044295	0	0.00000E+00	441470.4	3760719.1	200.9	3.66	1.40
2.89 YES							
L0044296	0	0.00000E+00	441470.3	3760716.1	200.9	3.66	1.40
2.89 YES							
L0044297	0	0.00000E+00	441470.3	3760713.1	200.9	3.66	1.40
2.89 YES							
L0044298	0	0.00000E+00	441470.3	3760710.1	200.8	3.66	1.40
2.89 YES							
L0044299	0	0.00000E+00	441470.3	3760707.1	200.8	3.66	1.40
2.89 YES							
L0044300	0	0.00000E+00	441470.3	3760704.1	200.8	3.66	1.40
2.89 YES							
L0044301	0	0.00000E+00	441470.3	3760701.1	200.8	3.66	1.40
2.89 YES							
L0044302	0	0.00000E+00	441470.3	3760698.1	200.7	3.66	1.40
2.89 YES							
L0044303	0	0.00000E+00	441470.3	3760695.1	200.7	3.66	1.40
2.89 YES							

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER EMISSION RATE BASE RELEASE INIT.

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INIT. SOURCE SZ	URBAN SOURCE ID	EMISSION RATE PART. SCALAR	(GRAMS/SEC) VARY CATS.	X	Y	ELEV.	HEIGHT	SY
			BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0044304		0	0.00000E+00	441470.3	3760692.1	200.7	3.66	1.40
2.89	YES							
L0044305		0	0.00000E+00	441470.3	3760689.1	200.7	3.66	1.40
2.89	YES							
L0044306		0	0.00000E+00	441470.3	3760686.1	200.7	3.66	1.40
2.89	YES							
L0044307		0	0.00000E+00	441470.2	3760683.1	200.6	3.66	1.40
2.89	YES							
L0044308		0	0.00000E+00	441470.2	3760680.1	200.6	3.66	1.40
2.89	YES							
L0044309		0	0.00000E+00	441470.2	3760677.1	200.6	3.66	1.40
2.89	YES							
L0044310		0	0.00000E+00	441470.2	3760674.1	200.6	3.66	1.40
2.89	YES							
L0044311		0	0.00000E+00	441470.2	3760671.1	200.6	3.66	1.40
2.89	YES							
L0044312		0	0.00000E+00	441470.2	3760668.1	200.6	3.66	1.40
2.89	YES							
L0044313		0	0.00000E+00	441470.2	3760665.1	200.6	3.66	1.40
2.89	YES							
L0044314		0	0.00000E+00	441470.2	3760662.1	200.6	3.66	1.40
2.89	YES							
L0044315		0	0.00000E+00	441470.2	3760659.1	200.6	3.66	1.40
2.89	YES							
L0044316		0	0.00000E+00	441470.2	3760656.1	200.5	3.66	1.40
2.89	YES							
L0044317		0	0.00000E+00	441470.2	3760653.1	200.5	3.66	1.40
2.89	YES							
L0044318		0	0.00000E+00	441470.1	3760650.1	200.5	3.66	1.40
2.89	YES							
L0044319		0	0.00000E+00	441470.1	3760647.1	200.5	3.66	1.40
2.89	YES							
L0044320		0	0.00000E+00	441470.1	3760644.1	200.5	3.66	1.40
2.89	YES							
L0044321		0	0.00000E+00	441470.1	3760641.1	200.4	3.66	1.40
2.89	YES							
L0044322		0	0.00000E+00	441470.1	3760638.1	200.4	3.66	1.40
2.89	YES							
L0044323		0	0.00000E+00	441470.1	3760635.1	200.4	3.66	1.40
2.89	YES							

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L0044324	0	0.00000E+00	441470.1	3760632.1	200.4	3.66	1.40
2.89	YES						
L0044325	0	0.00000E+00	441470.1	3760629.1	200.4	3.66	1.40
2.89	YES						
L0044326	0	0.00000E+00	441470.1	3760626.1	200.3	3.66	1.40
2.89	YES						
L0044327	0	0.00000E+00	441470.1	3760623.1	200.3	3.66	1.40
2.89	YES						
L0044328	0	0.00000E+00	441470.1	3760620.1	200.3	3.66	1.40
2.89	YES						
L0044329	0	0.00000E+00	441470.1	3760617.1	200.3	3.66	1.40
2.89	YES						
L0044330	0	0.00000E+00	441470.0	3760614.1	200.3	3.66	1.40
2.89	YES						
L0044331	0	0.00000E+00	441470.0	3760611.1	200.2	3.66	1.40
2.89	YES						
L0044332	0	0.00000E+00	441470.0	3760608.1	200.2	3.66	1.40
2.89	YES						
L0044333	0	0.00000E+00	441470.0	3760605.1	200.2	3.66	1.40
2.89	YES						
L0044334	0	0.00000E+00	440858.0	3761185.9	203.0	3.66	1.40
2.89	YES						
L0044335	0	0.00000E+00	440861.0	3761185.9	203.1	3.66	1.40
2.89	YES						
L0044336	0	0.00000E+00	440864.0	3761185.9	203.1	3.66	1.40
2.89	YES						
L0044337	0	0.00000E+00	440867.0	3761185.9	203.2	3.66	1.40
2.89	YES						
L0044338	0	0.00000E+00	440870.0	3761185.9	203.2	3.66	1.40
2.89	YES						
L0044339	0	0.00000E+00	440873.0	3761186.0	203.3	3.66	1.40
2.89	YES						
L0044340	0	0.00000E+00	440876.0	3761186.0	203.4	3.66	1.40
2.89	YES						
L0044341	0	0.00000E+00	440879.0	3761186.0	203.5	3.66	1.40
2.89	YES						
L0044342	0	0.00000E+00	440882.0	3761186.0	203.5	3.66	1.40
2.89	YES						
L0044343	0	0.00000E+00	440885.0	3761186.0	203.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						
L0044344	0	0.00000E+00	440888.0	3761186.0	203.7	3.66	1.40	
2.89	YES							
L0044345	0	0.00000E+00	440891.0	3761186.0	203.8	3.66	1.40	
2.89	YES							
L0044346	0	0.00000E+00	440894.0	3761186.0	203.9	3.66	1.40	
2.89	YES							
L0044347	0	0.00000E+00	440897.0	3761186.0	204.0	3.66	1.40	
2.89	YES							
L0044348	0	0.00000E+00	440900.0	3761186.1	204.1	3.66	1.40	
2.89	YES							
L0044349	0	0.00000E+00	440903.0	3761186.1	204.1	3.66	1.40	
2.89	YES							
L0044350	0	0.00000E+00	440906.0	3761186.1	204.2	3.66	1.40	
2.89	YES							
L0044351	0	0.00000E+00	440909.0	3761186.1	204.2	3.66	1.40	
2.89	YES							
L0044352	0	0.00000E+00	440912.0	3761186.1	204.3	3.66	1.40	
2.89	YES							
L0044353	0	0.00000E+00	440915.0	3761186.1	204.3	3.66	1.40	
2.89	YES							
L0044354	0	0.00000E+00	440918.0	3761186.1	204.4	3.66	1.40	
2.89	YES							
L0044355	0	0.00000E+00	440921.0	3761186.1	204.4	3.66	1.40	
2.89	YES							
L0044356	0	0.00000E+00	440924.0	3761186.1	204.5	3.66	1.40	
2.89	YES							
L0044357	0	0.00000E+00	440927.0	3761186.1	204.5	3.66	1.40	
2.89	YES							
L0044358	0	0.00000E+00	440930.0	3761186.2	204.5	3.66	1.40	
2.89	YES							
L0044359	0	0.00000E+00	440933.0	3761186.2	204.6	3.66	1.40	
2.89	YES							
L0044360	0	0.00000E+00	440936.0	3761186.2	204.6	3.66	1.40	
2.89	YES							
L0044361	0	0.00000E+00	440939.0	3761186.2	204.6	3.66	1.40	
2.89	YES							

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L0044362	0	0.00000E+00	440942.0	3761186.2	204.6	3.66	1.40
2.89	YES						
L0044363	0	0.00000E+00	440945.0	3761186.2	204.6	3.66	1.40
2.89	YES						
L0044364	0	0.00000E+00	440948.0	3761186.2	204.6	3.66	1.40
2.89	YES						
L0044365	0	0.00000E+00	440951.0	3761186.2	204.7	3.66	1.40
2.89	YES						
L0044366	0	0.00000E+00	440954.0	3761186.2	204.7	3.66	1.40
2.89	YES						
L0044367	0	0.00000E+00	440957.0	3761186.3	204.6	3.66	1.40
2.89	YES						
L0044368	0	0.00000E+00	440960.0	3761186.3	204.6	3.66	1.40
2.89	YES						
L0044369	0	0.00000E+00	440963.0	3761186.3	204.5	3.66	1.40
2.89	YES						
L0044370	0	0.00000E+00	440966.0	3761186.3	204.5	3.66	1.40
2.89	YES						
L0044371	0	0.00000E+00	440969.0	3761186.3	204.4	3.66	1.40
2.89	YES						
L0044372	0	0.00000E+00	440972.0	3761186.3	204.4	3.66	1.40
2.89	YES						
L0044373	0	0.00000E+00	440975.0	3761186.3	204.3	3.66	1.40
2.89	YES						
L0044374	0	0.00000E+00	440978.0	3761186.3	204.2	3.66	1.40
2.89	YES						
L0044375	0	0.00000E+00	440981.0	3761186.3	204.2	3.66	1.40
2.89	YES						
L0044376	0	0.00000E+00	440984.0	3761186.3	204.1	3.66	1.40
2.89	YES						
L0044377	0	0.00000E+00	440987.0	3761186.4	204.0	3.66	1.40
2.89	YES						
L0044378	0	0.00000E+00	440990.0	3761186.4	203.9	3.66	1.40
2.89	YES						
L0044379	0	0.00000E+00	440993.0	3761186.4	203.8	3.66	1.40
2.89	YES						
L0044380	0	0.00000E+00	440996.0	3761186.4	203.7	3.66	1.40
2.89	YES						
L0044381	0	0.00000E+00	440999.0	3761186.4	203.6	3.66	1.40
2.89	YES						
L0044382	0	0.00000E+00	441002.0	3761186.4	203.5	3.66	1.40
2.89	YES						
L0044383	0	0.00000E+00	441005.0	3761186.4	203.4	3.66	1.40
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      17:50:42

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0044384		0	0.00000E+00	441008.0	3761186.4	203.4	3.66	1.40
2.89	YES							
L0044385		0	0.00000E+00	441011.0	3761186.4	203.4	3.66	1.40
2.89	YES							
L0044386		0	0.00000E+00	441014.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044387		0	0.00000E+00	441017.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044388		0	0.00000E+00	441020.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044389		0	0.00000E+00	441023.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044390		0	0.00000E+00	441026.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044391		0	0.00000E+00	441029.0	3761186.5	203.3	3.66	1.40
2.89	YES							
L0044392		0	0.00000E+00	441032.0	3761186.5	203.3	3.66	1.40
2.89	YES							
L0044393		0	0.00000E+00	441035.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044394		0	0.00000E+00	441038.0	3761186.5	203.4	3.66	1.40
2.89	YES							
L0044395		0	0.00000E+00	441041.0	3761186.6	203.4	3.66	1.40
2.89	YES							
L0044396		0	0.00000E+00	441044.0	3761186.6	203.5	3.66	1.40
2.89	YES							
L0044397		0	0.00000E+00	441047.0	3761186.6	203.5	3.66	1.40
2.89	YES							
L0044398		0	0.00000E+00	441050.0	3761186.6	203.5	3.66	1.40
2.89	YES							
L0044399		0	0.00000E+00	441053.0	3761186.6	203.5	3.66	1.40
2.89	YES							



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L0044400	0	0.00000E+00	441056.0	3761186.6	203.6	3.66	1.40
2.89	YES						
L0044401	0	0.00000E+00	441059.0	3761186.6	203.6	3.66	1.40
2.89	YES						
L0044402	0	0.00000E+00	441062.0	3761186.6	203.6	3.66	1.40
2.89	YES						
L0044403	0	0.00000E+00	441065.0	3761186.6	203.6	3.66	1.40
2.89	YES						
L0044404	0	0.00000E+00	441068.0	3761186.6	203.7	3.66	1.40
2.89	YES						
L0044405	0	0.00000E+00	441071.0	3761186.7	203.7	3.66	1.40
2.89	YES						
L0044406	0	0.00000E+00	441074.0	3761186.7	203.7	3.66	1.40
2.89	YES						
L0044407	0	0.00000E+00	441077.0	3761186.7	203.8	3.66	1.40
2.89	YES						
L0044408	0	0.00000E+00	441080.0	3761186.7	203.8	3.66	1.40
2.89	YES						
L0044409	0	0.00000E+00	441083.0	3761186.7	203.8	3.66	1.40
2.89	YES						
L0044410	0	0.00000E+00	441086.0	3761186.7	203.8	3.66	1.40
2.89	YES						
L0044411	0	0.00000E+00	441089.0	3761186.7	203.7	3.66	1.40
2.89	YES						
L0044412	0	0.00000E+00	441092.0	3761186.7	203.7	3.66	1.40
2.89	YES						
L0044413	0	0.00000E+00	441095.0	3761186.7	203.7	3.66	1.40
2.89	YES						
L0044414	0	0.00000E+00	441098.0	3761186.8	203.6	3.66	1.40
2.89	YES						
L0044415	0	0.00000E+00	441101.0	3761186.8	203.6	3.66	1.40
2.89	YES						
L0044416	0	0.00000E+00	441104.0	3761186.8	203.6	3.66	1.40
2.89	YES						
L0044417	0	0.00000E+00	441107.0	3761186.8	203.5	3.66	1.40
2.89	YES						
L0044418	0	0.00000E+00	440885.1	3761001.7	201.8	3.66	1.40
2.89	YES						
L0044419	0	0.00000E+00	440885.1	3760998.7	201.7	3.66	1.40
2.89	YES						
L0044420	0	0.00000E+00	440885.1	3760995.7	201.7	3.66	1.40
2.89	YES						
L0044421	0	0.00000E+00	440885.1	3760992.7	201.7	3.66	1.40
2.89	YES						
L0044422	0	0.00000E+00	440885.1	3760989.7	201.6	3.66	1.40
2.89	YES						
L0044423	0	0.00000E+00	440885.1	3760986.7	201.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0044424		0	0.00000E+00	440885.1	3760983.7	201.6	3.66	1.40
2.89	YES							
L0044425		0	0.00000E+00	440885.1	3760980.7	201.5	3.66	1.40
2.89	YES							
L0044426		0	0.00000E+00	440885.1	3760977.7	201.5	3.66	1.40
2.89	YES							
L0044427		0	0.00000E+00	440885.1	3760974.7	201.5	3.66	1.40
2.89	YES							
L0044428		0	0.00000E+00	440885.1	3760971.7	201.4	3.66	1.40
2.89	YES							
L0044429		0	0.00000E+00	440885.1	3760968.7	201.4	3.66	1.40
2.89	YES							
L0044430		0	0.00000E+00	440885.1	3760965.7	201.4	3.66	1.40
2.89	YES							
L0044431		0	0.00000E+00	440885.1	3760962.7	201.4	3.66	1.40
2.89	YES							
L0044432		0	0.00000E+00	440885.1	3760959.7	201.4	3.66	1.40
2.89	YES							
L0044433		0	0.00000E+00	440885.1	3760956.7	201.3	3.66	1.40
2.89	YES							
L0044434		0	0.00000E+00	440885.1	3760953.7	201.3	3.66	1.40
2.89	YES							
L0044435		0	0.00000E+00	440885.1	3760950.7	201.3	3.66	1.40
2.89	YES							
L0044436		0	0.00000E+00	440885.1	3760947.7	201.3	3.66	1.40
2.89	YES							
L0044437		0	0.00000E+00	440885.1	3760944.7	201.3	3.66	1.40
2.89	YES							

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L0044438	0	0.00000E+00	440885.1	3760941.7	201.3	3.66	1.40
2.89	YES						
L0044439	0	0.00000E+00	440885.1	3760938.7	201.2	3.66	1.40
2.89	YES						
L0044440	0	0.00000E+00	440885.1	3760935.7	201.2	3.66	1.40
2.89	YES						
L0044441	0	0.00000E+00	440885.1	3760932.7	201.2	3.66	1.40
2.89	YES						
L0044442	0	0.00000E+00	440885.1	3760929.7	201.2	3.66	1.40
2.89	YES						
L0044443	0	0.00000E+00	440885.1	3760926.7	201.1	3.66	1.40
2.89	YES						
L0044444	0	0.00000E+00	440885.1	3760923.7	201.1	3.66	1.40
2.89	YES						
L0044445	0	0.00000E+00	440885.1	3760920.7	201.1	3.66	1.40
2.89	YES						
L0044446	0	0.00000E+00	440885.1	3760917.7	201.0	3.66	1.40
2.89	YES						
L0044447	0	0.00000E+00	440885.1	3760914.7	201.0	3.66	1.40
2.89	YES						
L0044448	0	0.00000E+00	440885.1	3760911.7	201.0	3.66	1.40
2.89	YES						
L0044449	0	0.00000E+00	440885.1	3760908.7	200.9	3.66	1.40
2.89	YES						
L0044450	0	0.00000E+00	440885.1	3760905.7	200.9	3.66	1.40
2.89	YES						
L0044451	0	0.00000E+00	440885.1	3760902.7	200.8	3.66	1.40
2.89	YES						
L0044452	0	0.00000E+00	440885.1	3760899.7	200.8	3.66	1.40
2.89	YES						
L0044453	0	0.00000E+00	440885.1	3760896.7	200.7	3.66	1.40
2.89	YES						
L0044454	0	0.00000E+00	440885.1	3760893.7	200.7	3.66	1.40
2.89	YES						
L0044455	0	0.00000E+00	440885.1	3760890.7	200.6	3.66	1.40
2.89	YES						
L0044456	0	0.00000E+00	440885.1	3760887.7	200.6	3.66	1.40
2.89	YES						
L0044457	0	0.00000E+00	440885.1	3760884.7	200.5	3.66	1.40
2.89	YES						
L0044458	0	0.00000E+00	440885.1	3760881.7	200.5	3.66	1.40
2.89	YES						
L0044459	0	0.00000E+00	440885.1	3760878.7	200.4	3.66	1.40
2.89	YES						
L0044460	0	0.00000E+00	440885.1	3760875.7	200.3	3.66	1.40
2.89	YES						
L0044461	0	0.00000E+00	440885.1	3760872.7	200.1	3.66	1.40
2.89	YES						

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L0044462            0    0.00000E+00   440885.1 3760869.7    200.0        3.66        1.40  
 2.89    YES  
 L0044463            0    0.00000E+00   440885.1 3760866.7    199.8        3.66        1.40  
 2.89    YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*        \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*        \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0044464	0	0.00000E+00	440885.1	3760863.7		199.7	3.66	1.40
2.89	YES							
L0044465	0	0.00000E+00	440885.1	3760860.7		199.5	3.66	1.40
2.89	YES							
L0044466	0	0.00000E+00	440885.1	3760857.7		199.4	3.66	1.40
2.89	YES							
L0044467	0	0.00000E+00	440885.1	3760854.7		199.2	3.66	1.40
2.89	YES							
L0044468	0	0.00000E+00	440885.1	3760851.7		199.1	3.66	1.40
2.89	YES							
L0044469	0	0.00000E+00	440885.1	3760848.7		198.9	3.66	1.40
2.89	YES							
L0044470	0	0.00000E+00	440885.1	3760845.7		198.8	3.66	1.40
2.89	YES							
L0044471	0	0.00000E+00	440885.1	3760842.7		198.9	3.66	1.40
2.89	YES							
L0044472	0	0.00000E+00	440885.1	3760839.7		198.9	3.66	1.40
2.89	YES							
L0044473	0	0.00000E+00	440885.1	3760836.7		199.0	3.66	1.40
2.89	YES							
L0044474	0	0.00000E+00	440885.1	3760833.7		199.0	3.66	1.40
2.89	YES							
L0044475	0	0.00000E+00	440885.1	3760830.7		199.1	3.66	1.40
2.89	YES							

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L0044476	0	0.00000E+00	440885.1	3760827.7	199.1	3.66	1.40
2.89	YES						
L0044477	0	0.00000E+00	440885.1	3760824.7	199.2	3.66	1.40
2.89	YES						
L0044478	0	0.00000E+00	440885.1	3760821.7	199.2	3.66	1.40
2.89	YES						
L0044479	0	0.00000E+00	440885.1	3760818.7	199.3	3.66	1.40
2.89	YES						
L0044480	0	0.00000E+00	440885.1	3760815.7	199.3	3.66	1.40
2.89	YES						
L0044481	0	0.00000E+00	440885.1	3760812.7	199.3	3.66	1.40
2.89	YES						
L0044482	0	0.00000E+00	440885.1	3760809.7	199.4	3.66	1.40
2.89	YES						
L0044483	0	0.00000E+00	440885.1	3760806.7	199.4	3.66	1.40
2.89	YES						
L0044484	0	0.00000E+00	440885.1	3760803.7	199.5	3.66	1.40
2.89	YES						
L0044485	0	0.00000E+00	440885.1	3760800.7	199.5	3.66	1.40
2.89	YES						
L0044486	0	0.00000E+00	440885.1	3760797.7	199.6	3.66	1.40
2.89	YES						
L0044487	0	0.00000E+00	440885.1	3760794.7	199.6	3.66	1.40
2.89	YES						
L0044488	0	0.00000E+00	440885.1	3760791.7	199.6	3.66	1.40
2.89	YES						
L0044489	0	0.00000E+00	440885.1	3760788.7	199.7	3.66	1.40
2.89	YES						
L0044490	0	0.00000E+00	440885.1	3760785.7	199.7	3.66	1.40
2.89	YES						
L0044491	0	0.00000E+00	440885.1	3760782.7	199.7	3.66	1.40
2.89	YES						
L0044492	0	0.00000E+00	440885.1	3760779.7	199.7	3.66	1.40
2.89	YES						
L0044493	0	0.00000E+00	440885.1	3760776.7	199.7	3.66	1.40
2.89	YES						
L0044494	0	0.00000E+00	440885.1	3760773.7	199.6	3.66	1.40
2.89	YES						
L0044495	0	0.00000E+00	440885.1	3760770.7	199.6	3.66	1.40
2.89	YES						
L0044496	0	0.00000E+00	440885.1	3760767.7	199.6	3.66	1.40
2.89	YES						
L0044497	0	0.00000E+00	440885.1	3760764.7	199.6	3.66	1.40
2.89	YES						
L0044498	0	0.00000E+00	440885.1	3760761.7	199.6	3.66	1.40
2.89	YES						
L0044499	0	0.00000E+00	440885.1	3760758.7	199.5	3.66	1.40
2.89	YES						

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L0044500	0	0.00000E+00	440885.1	3760755.7	199.5	3.66	1.40
2.89	YES						
L0044501	0	0.00000E+00	440885.1	3760752.7	199.5	3.66	1.40
2.89	YES						
L0044502	0	0.00000E+00	440885.1	3760749.7	199.5	3.66	1.40
2.89	YES						
L0044503	0	0.00000E+00	440885.1	3760746.7	199.5	3.66	1.40
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0044504	0	0.00000E+00	440885.1	3760743.7	199.4	3.66	1.40
2.89	YES						
L0044505	0	0.00000E+00	440885.1	3760740.7	199.4	3.66	1.40
2.89	YES						
L0044506	0	0.00000E+00	440885.1	3760737.7	199.4	3.66	1.40
2.89	YES						
L0044507	0	0.00000E+00	440885.1	3760734.7	199.4	3.66	1.40
2.89	YES						
L0044508	0	0.00000E+00	440885.1	3760731.7	199.4	3.66	1.40
2.89	YES						
L0044509	0	0.00000E+00	440885.1	3760728.7	199.3	3.66	1.40
2.89	YES						
L0044510	0	0.00000E+00	440885.1	3760725.7	199.3	3.66	1.40
2.89	YES						
L0044511	0	0.00000E+00	440885.1	3760722.7	199.3	3.66	1.40
2.89	YES						
L0044512	0	0.00000E+00	440885.1	3760719.7	199.3	3.66	1.40
2.89	YES						
L0044513	0	0.00000E+00	440885.1	3760716.7	199.2	3.66	1.40
2.89	YES						

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L0044514	0	0.00000E+00	440885.1	3760713.7	199.2	3.66	1.40
2.89	YES						
L0044515	0	0.00000E+00	440885.1	3760710.7	199.2	3.66	1.40
2.89	YES						
L0044516	0	0.00000E+00	440885.1	3760707.7	199.2	3.66	1.40
2.89	YES						
L0044517	0	0.00000E+00	440885.1	3760704.7	199.2	3.66	1.40
2.89	YES						
L0044518	0	0.00000E+00	440885.1	3760701.7	199.2	3.66	1.40
2.89	YES						
L0044519	0	0.00000E+00	440885.1	3760698.7	199.1	3.66	1.40
2.89	YES						
L0044520	0	0.00000E+00	440885.1	3760695.7	199.1	3.66	1.40
2.89	YES						
L0044521	0	0.00000E+00	440885.1	3760692.7	199.1	3.66	1.40
2.89	YES						
L0044522	0	0.00000E+00	440885.1	3760689.7	199.1	3.66	1.40
2.89	YES						
L0044523	0	0.00000E+00	440885.1	3760686.7	199.0	3.66	1.40
2.89	YES						
L0044524	0	0.00000E+00	440885.1	3760683.7	199.0	3.66	1.40
2.89	YES						
L0044525	0	0.00000E+00	440885.1	3760680.7	199.0	3.66	1.40
2.89	YES						
L0044526	0	0.00000E+00	440885.1	3760677.7	199.0	3.66	1.40
2.89	YES						
L0044527	0	0.00000E+00	440885.1	3760674.7	199.0	3.66	1.40
2.89	YES						
L0044528	0	0.00000E+00	440885.1	3760671.7	198.9	3.66	1.40
2.89	YES						
L0044529	0	0.00000E+00	440885.1	3760668.7	198.9	3.66	1.40
2.89	YES						
L0044530	0	0.00000E+00	440885.1	3760665.7	198.9	3.66	1.40
2.89	YES						
L0044531	0	0.00000E+00	440885.1	3760662.7	198.9	3.66	1.40
2.89	YES						
L0044532	0	0.00000E+00	440885.1	3760659.7	198.8	3.66	1.40
2.89	YES						
L0044533	0	0.00000E+00	440885.1	3760656.7	198.8	3.66	1.40
2.89	YES						
L0044534	0	0.00000E+00	440885.1	3760653.7	198.8	3.66	1.40
2.89	YES						
L0044535	0	0.00000E+00	440885.1	3760650.7	198.8	3.66	1.40
2.89	YES						
L0044536	0	0.00000E+00	440885.1	3760647.7	198.7	3.66	1.40
2.89	YES						
L0044537	0	0.00000E+00	440885.1	3760644.7	198.7	3.66	1.40
2.89	YES						

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L0044538	0	0.00000E+00	440885.1	3760641.7	198.7	3.66	1.40
2.89	YES						
L0044539	0	0.00000E+00	440885.1	3760638.7	198.7	3.66	1.40
2.89	YES						
L0044540	0	0.00000E+00	440885.1	3760635.7	198.6	3.66	1.40
2.89	YES						
L0044541	0	0.00000E+00	440885.1	3760632.7	198.6	3.66	1.40
2.89	YES						
L0044542	0	0.00000E+00	440885.1	3760629.7	198.6	3.66	1.40
2.89	YES						
L0044543	0	0.00000E+00	440885.1	3760626.7	198.6	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					
L0044544	0	0.00000E+00	440885.1	3760623.7	198.6	3.66	1.40	
2.89	YES							
L0044545	0	0.00000E+00	440885.1	3760620.7	198.5	3.66	1.40	
2.89	YES							
L0044546	0	0.00000E+00	440885.1	3760617.7	198.5	3.66	1.40	
2.89	YES							
L0044547	0	0.00000E+00	440885.1	3760614.7	198.5	3.66	1.40	
2.89	YES							
L0044548	0	0.00000E+00	440885.1	3760611.7	198.5	3.66	1.40	
2.89	YES							
L0044549	0	0.00000E+00	440885.1	3760608.7	198.4	3.66	1.40	
2.89	YES							
L0044550	0	0.00000E+00	440885.1	3760605.7	198.4	3.66	1.40	
2.89	YES							
L0044551	0	0.00000E+00	440885.1	3760602.7	198.4	3.66	1.40	
2.89	YES							



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L0044552	0	0.00000E+00	440885.1	3760599.7	198.4	3.66	1.40
2.89	YES						
L0044553	0	0.00000E+00	440885.1	3760596.7	198.3	3.66	1.40
2.89	YES						
L0044554	0	0.00000E+00	440885.1	3760593.7	198.3	3.66	1.40
2.89	YES						
L0044555	0	0.00000E+00	440885.1	3760590.7	198.3	3.66	1.40
2.89	YES						
L0044556	0	0.00000E+00	441082.8	3761000.0	202.2	3.66	1.40
2.89	YES						
L0044557	0	0.00000E+00	441082.8	3760997.0	202.2	3.66	1.40
2.89	YES						
L0044558	0	0.00000E+00	441082.8	3760994.0	202.2	3.66	1.40
2.89	YES						
L0044559	0	0.00000E+00	441082.7	3760991.0	202.2	3.66	1.40
2.89	YES						
L0044560	0	0.00000E+00	441082.7	3760988.0	202.1	3.66	1.40
2.89	YES						
L0044561	0	0.00000E+00	441082.7	3760985.0	202.1	3.66	1.40
2.89	YES						
L0044562	0	0.00000E+00	441082.7	3760982.0	202.1	3.66	1.40
2.89	YES						
L0044563	0	0.00000E+00	441082.7	3760979.0	202.0	3.66	1.40
2.89	YES						
L0044564	0	0.00000E+00	441082.7	3760976.0	202.0	3.66	1.40
2.89	YES						
L0044565	0	0.00000E+00	441082.6	3760973.0	202.0	3.66	1.40
2.89	YES						
L0044566	0	0.00000E+00	441082.6	3760970.0	201.9	3.66	1.40
2.89	YES						
L0044567	0	0.00000E+00	441082.6	3760967.0	201.9	3.66	1.40
2.89	YES						
L0044568	0	0.00000E+00	441082.6	3760964.0	201.9	3.66	1.40
2.89	YES						
L0044569	0	0.00000E+00	441082.6	3760961.0	201.9	3.66	1.40
2.89	YES						
L0044570	0	0.00000E+00	441082.5	3760958.0	201.8	3.66	1.40
2.89	YES						
L0044571	0	0.00000E+00	441082.5	3760955.0	201.8	3.66	1.40
2.89	YES						
L0044572	0	0.00000E+00	441082.5	3760952.0	201.8	3.66	1.40
2.89	YES						
L0044573	0	0.00000E+00	441082.5	3760949.0	201.7	3.66	1.40
2.89	YES						
L0044574	0	0.00000E+00	441082.5	3760946.0	201.7	3.66	1.40
2.89	YES						
L0044575	0	0.00000E+00	441082.5	3760943.0	201.7	3.66	1.40
2.89	YES						

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L0044576	0	0.00000E+00	441082.4	3760940.0	201.6	3.66	1.40
2.89	YES						
L0044577	0	0.00000E+00	441082.4	3760937.0	201.6	3.66	1.40
2.89	YES						
L0044578	0	0.00000E+00	441082.4	3760934.0	201.6	3.66	1.40
2.89	YES						
L0044579	0	0.00000E+00	441082.4	3760931.0	201.6	3.66	1.40
2.89	YES						
L0044580	0	0.00000E+00	441082.4	3760928.0	201.5	3.66	1.40
2.89	YES						
L0044581	0	0.00000E+00	441082.3	3760925.0	201.5	3.66	1.40
2.89	YES						
L0044582	0	0.00000E+00	441082.3	3760922.0	201.5	3.66	1.40
2.89	YES						
L0044583	0	0.00000E+00	441082.3	3760919.0	201.4	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0044584	0	0.00000E+00	441082.3	3760916.0	201.4	3.66	1.40
2.89	YES						
L0044585	0	0.00000E+00	441082.3	3760913.0	201.4	3.66	1.40
2.89	YES						
L0044586	0	0.00000E+00	441082.3	3760910.0	201.3	3.66	1.40
2.89	YES						
L0044587	0	0.00000E+00	441082.2	3760907.0	201.3	3.66	1.40
2.89	YES						
L0044588	0	0.00000E+00	441082.2	3760904.0	201.3	3.66	1.40
2.89	YES						
L0044589	0	0.00000E+00	441082.2	3760901.0	201.3	3.66	1.40
2.89	YES						

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L0044590	0	0.00000E+00	441082.2	3760898.0	201.2	3.66	1.40
2.89	YES						
L0044591	0	0.00000E+00	441082.2	3760895.0	201.2	3.66	1.40
2.89	YES						
L0044592	0	0.00000E+00	441082.2	3760892.0	201.2	3.66	1.40
2.89	YES						
L0044593	0	0.00000E+00	441082.1	3760889.0	201.2	3.66	1.40
2.89	YES						
L0044594	0	0.00000E+00	441082.1	3760886.0	201.1	3.66	1.40
2.89	YES						
L0044595	0	0.00000E+00	441082.1	3760883.0	201.1	3.66	1.40
2.89	YES						
L0044596	0	0.00000E+00	441082.1	3760880.0	201.1	3.66	1.40
2.89	YES						
L0044597	0	0.00000E+00	441082.1	3760877.0	201.1	3.66	1.40
2.89	YES						
L0044598	0	0.00000E+00	441082.0	3760874.0	201.1	3.66	1.40
2.89	YES						
L0044599	0	0.00000E+00	441082.0	3760871.0	201.1	3.66	1.40
2.89	YES						
L0044600	0	0.00000E+00	441082.0	3760868.0	201.1	3.66	1.40
2.89	YES						
L0044601	0	0.00000E+00	441082.0	3760865.0	201.1	3.66	1.40
2.89	YES						
L0044602	0	0.00000E+00	441082.0	3760862.0	201.1	3.66	1.40
2.89	YES						
L0044603	0	0.00000E+00	441082.0	3760859.0	201.1	3.66	1.40
2.89	YES						
L0044604	0	0.00000E+00	441081.9	3760856.0	201.1	3.66	1.40
2.89	YES						
L0044605	0	0.00000E+00	441081.9	3760853.0	201.1	3.66	1.40
2.89	YES						
L0044606	0	0.00000E+00	441081.9	3760850.0	201.1	3.66	1.40
2.89	YES						
L0044607	0	0.00000E+00	441081.9	3760847.0	201.1	3.66	1.40
2.89	YES						
L0044608	0	0.00000E+00	441081.9	3760844.0	201.1	3.66	1.40
2.89	YES						
L0044609	0	0.00000E+00	441081.9	3760841.0	201.1	3.66	1.40
2.89	YES						
L0044610	0	0.00000E+00	441081.8	3760838.0	201.1	3.66	1.40
2.89	YES						
L0044611	0	0.00000E+00	441081.8	3760835.0	201.1	3.66	1.40
2.89	YES						
L0044612	0	0.00000E+00	441081.8	3760832.0	201.1	3.66	1.40
2.89	YES						
L0044613	0	0.00000E+00	441081.8	3760829.0	201.0	3.66	1.40
2.89	YES						

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L0044614	0	0.00000E+00	441081.8	3760826.0	201.0	3.66	1.40
2.89	YES						
L0044615	0	0.00000E+00	441081.7	3760823.0	201.0	3.66	1.40
2.89	YES						
L0044616	0	0.00000E+00	441081.7	3760820.0	201.0	3.66	1.40
2.89	YES						
L0044617	0	0.00000E+00	441081.7	3760817.0	201.0	3.66	1.40
2.89	YES						
L0044618	0	0.00000E+00	441081.7	3760814.0	201.0	3.66	1.40
2.89	YES						
L0044619	0	0.00000E+00	441081.7	3760811.0	200.9	3.66	1.40
2.89	YES						
L0044620	0	0.00000E+00	441081.7	3760808.0	200.9	3.66	1.40
2.89	YES						
L0044621	0	0.00000E+00	441081.6	3760805.0	200.9	3.66	1.40
2.89	YES						
L0044622	0	0.00000E+00	441081.6	3760802.0	200.8	3.66	1.40
2.89	YES						
L0044623	0	0.00000E+00	441081.6	3760799.0	200.8	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0044624	0	0.00000E+00	441081.6	3760796.0	200.8	3.66	1.40
2.89	YES						
L0044625	0	0.00000E+00	441081.6	3760793.0	200.7	3.66	1.40
2.89	YES						
L0044626	0	0.00000E+00	441081.5	3760790.0	200.7	3.66	1.40
2.89	YES						
L0044627	0	0.00000E+00	441081.5	3760787.0	200.7	3.66	1.40
2.89	YES						

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L0044628	0	0.00000E+00	441081.5	3760784.0	200.7	3.66	1.40
2.89	YES						
L0044629	0	0.00000E+00	441081.5	3760781.0	200.6	3.66	1.40
2.89	YES						
L0044630	0	0.00000E+00	441081.5	3760778.0	200.6	3.66	1.40
2.89	YES						
L0044631	0	0.00000E+00	441081.5	3760775.0	200.6	3.66	1.40
2.89	YES						
L0044632	0	0.00000E+00	441081.4	3760772.0	200.6	3.66	1.40
2.89	YES						
L0044633	0	0.00000E+00	441081.4	3760769.0	200.6	3.66	1.40
2.89	YES						
L0044634	0	0.00000E+00	441081.4	3760766.0	200.6	3.66	1.40
2.89	YES						
L0044635	0	0.00000E+00	441081.4	3760763.0	200.6	3.66	1.40
2.89	YES						
L0044636	0	0.00000E+00	441081.4	3760760.0	200.6	3.66	1.40
2.89	YES						
L0044637	0	0.00000E+00	441081.4	3760757.0	200.6	3.66	1.40
2.89	YES						
L0044638	0	0.00000E+00	441081.3	3760754.0	200.6	3.66	1.40
2.89	YES						
L0044639	0	0.00000E+00	441081.3	3760751.0	200.5	3.66	1.40
2.89	YES						
L0044640	0	0.00000E+00	441081.3	3760748.0	200.5	3.66	1.40
2.89	YES						
L0044641	0	0.00000E+00	441081.3	3760745.0	200.5	3.66	1.40
2.89	YES						
L0044642	0	0.00000E+00	441081.3	3760742.0	200.5	3.66	1.40
2.89	YES						
L0044643	0	0.00000E+00	441081.2	3760739.0	200.5	3.66	1.40
2.89	YES						
L0044644	0	0.00000E+00	441081.2	3760736.0	200.5	3.66	1.40
2.89	YES						
L0044645	0	0.00000E+00	441081.2	3760733.0	200.5	3.66	1.40
2.89	YES						
L0044646	0	0.00000E+00	441081.2	3760730.0	200.5	3.66	1.40
2.89	YES						
L0044647	0	0.00000E+00	441081.2	3760727.0	200.5	3.66	1.40
2.89	YES						
L0044648	0	0.00000E+00	441081.2	3760724.0	200.5	3.66	1.40
2.89	YES						
L0044649	0	0.00000E+00	441081.1	3760721.0	200.5	3.66	1.40
2.89	YES						
L0044650	0	0.00000E+00	441081.1	3760718.0	200.5	3.66	1.40
2.89	YES						
L0044651	0	0.00000E+00	441081.1	3760715.0	200.5	3.66	1.40
2.89	YES						

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L0044652	0	0.00000E+00	441081.1	3760712.0	200.5	3.66	1.40
2.89	YES						
L0044653	0	0.00000E+00	441081.1	3760709.0	200.5	3.66	1.40
2.89	YES						
L0044654	0	0.00000E+00	441081.0	3760706.0	200.5	3.66	1.40
2.89	YES						
L0044655	0	0.00000E+00	441081.0	3760703.0	200.5	3.66	1.40
2.89	YES						
L0044656	0	0.00000E+00	441081.0	3760700.0	200.5	3.66	1.40
2.89	YES						
L0044657	0	0.00000E+00	441081.0	3760697.0	200.5	3.66	1.40
2.89	YES						
L0044658	0	0.00000E+00	441081.0	3760694.0	200.5	3.66	1.40
2.89	YES						
L0044659	0	0.00000E+00	441081.0	3760691.0	200.5	3.66	1.40
2.89	YES						
L0044660	0	0.00000E+00	441080.9	3760688.0	200.4	3.66	1.40
2.89	YES						
L0044661	0	0.00000E+00	441080.9	3760685.0	200.4	3.66	1.40
2.89	YES						
L0044662	0	0.00000E+00	441080.9	3760682.0	200.4	3.66	1.40
2.89	YES						
L0044663	0	0.00000E+00	441080.9	3760679.0	200.4	3.66	1.40
2.89	YES						

\*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0044664	0	0.00000E+00	441080.9	3760676.0	200.3	3.66	1.40
2.89	YES						
L0044665	0	0.00000E+00	441080.9	3760673.0	200.3	3.66	1.40
2.89	YES						

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L0044666	0	0.00000E+00	441080.8	3760670.0	200.3	3.66	1.40
2.89	YES						
L0044667	0	0.00000E+00	441080.8	3760667.0	200.3	3.66	1.40
2.89	YES						
L0044668	0	0.00000E+00	441080.8	3760664.0	200.2	3.66	1.40
2.89	YES						
L0044669	0	0.00000E+00	441080.8	3760661.0	200.2	3.66	1.40
2.89	YES						
L0044670	0	0.00000E+00	441080.8	3760658.0	200.2	3.66	1.40
2.89	YES						
L0044671	0	0.00000E+00	441080.7	3760655.0	200.2	3.66	1.40
2.89	YES						
L0044672	0	0.00000E+00	441080.7	3760652.0	200.2	3.66	1.40
2.89	YES						
L0044673	0	0.00000E+00	441080.7	3760649.0	200.2	3.66	1.40
2.89	YES						
L0044674	0	0.00000E+00	441080.7	3760646.0	200.2	3.66	1.40
2.89	YES						
L0044675	0	0.00000E+00	441080.7	3760643.0	200.2	3.66	1.40
2.89	YES						
L0044676	0	0.00000E+00	441080.7	3760640.0	200.1	3.66	1.40
2.89	YES						
L0044677	0	0.00000E+00	441080.6	3760637.0	200.1	3.66	1.40
2.89	YES						
L0044678	0	0.00000E+00	441080.6	3760634.0	200.1	3.66	1.40
2.89	YES						
L0044679	0	0.00000E+00	441080.6	3760631.0	200.1	3.66	1.40
2.89	YES						
L0044680	0	0.00000E+00	441080.6	3760628.0	200.1	3.66	1.40
2.89	YES						
L0044681	0	0.00000E+00	441080.6	3760625.0	200.1	3.66	1.40
2.89	YES						
L0044682	0	0.00000E+00	441080.6	3760622.0	200.1	3.66	1.40
2.89	YES						
L0044683	0	0.00000E+00	441080.5	3760619.0	200.0	3.66	1.40
2.89	YES						
L0044684	0	0.00000E+00	441080.5	3760616.0	200.0	3.66	1.40
2.89	YES						
L0044685	0	0.00000E+00	441080.5	3760613.0	200.0	3.66	1.40
2.89	YES						
L0044686	0	0.00000E+00	441080.5	3760610.0	200.0	3.66	1.40
2.89	YES						
L0044687	0	0.00000E+00	441080.5	3760607.0	200.0	3.66	1.40
2.89	YES						
L0044688	0	0.00000E+00	441080.4	3760604.0	199.9	3.66	1.40
2.89	YES						
L0044689	0	0.00000E+00	441080.4	3760601.0	199.9	3.66	1.40
2.89	YES						

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L0044690	0	0.00000E+00	441080.4	3760598.0	199.9	3.66	1.40
2.89	YES						
L0044691	0	0.00000E+00	441080.4	3760595.0	199.9	3.66	1.40
2.89	YES						
L0044692	0	0.00000E+00	441080.4	3760592.0	199.9	3.66	1.40
2.89	YES						
L0044693	0	0.00000E+00	441080.4	3760589.0	199.9	3.66	1.40
2.89	YES						
L0035433	0	0.00000E+00	440815.1	3761148.5	202.2	3.66	2.33
2.89	YES						
L0035434	0	0.00000E+00	440813.6	3761153.2	202.3	3.66	2.33
2.89	YES						
L0035435	0	0.00000E+00	440812.0	3761158.0	202.3	3.66	2.33
2.89	YES						
L0035436	0	0.00000E+00	440810.4	3761162.7	202.3	3.66	2.33
2.89	YES						
L0035437	0	0.00000E+00	440808.9	3761167.5	202.4	3.66	2.33
2.89	YES						
L0035438	0	0.00000E+00	440807.4	3761172.2	202.4	3.66	2.33
2.89	YES						
L0035439	0	0.00000E+00	440808.5	3761177.1	202.5	3.66	2.33
2.89	YES						
L0035440	0	0.00000E+00	440809.6	3761182.0	202.5	3.66	2.33
2.89	YES						
L0035441	0	0.00000E+00	440810.6	3761186.9	202.6	3.66	2.33
2.89	YES						
L0035442	0	0.00000E+00	440811.7	3761191.8	202.7	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							



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L0035443	0	0.00000E+00	440812.8	3761196.7	202.7	3.66	2.33
2.89	YES						
L0035444	0	0.00000E+00	440813.8	3761201.5	202.8	3.66	2.33
2.89	YES						
L0035445	0	0.00000E+00	440814.9	3761206.4	202.9	3.66	2.33
2.89	YES						
L0035446	0	0.00000E+00	440817.5	3761210.3	202.9	3.66	2.33
2.89	YES						
L0035447	0	0.00000E+00	440821.6	3761213.2	203.0	3.66	2.33
2.89	YES						
L0035448	0	0.00000E+00	440825.7	3761216.0	203.1	3.66	2.33
2.89	YES						
L0035449	0	0.00000E+00	440829.8	3761218.9	203.1	3.66	2.33
2.89	YES						
L0035450	0	0.00000E+00	440833.9	3761221.8	203.2	3.66	2.33
2.89	YES						
L0035451	0	0.00000E+00	440838.0	3761224.6	203.2	3.66	2.33
2.89	YES						
L0035452	0	0.00000E+00	440842.9	3761225.3	203.3	3.66	2.33
2.89	YES						
L0035453	0	0.00000E+00	440847.9	3761226.0	203.3	3.66	2.33
2.89	YES						
L0035454	0	0.00000E+00	440852.8	3761226.7	203.4	3.66	2.33
2.89	YES						
L0035455	0	0.00000E+00	440857.8	3761227.4	203.5	3.66	2.33
2.89	YES						
L0035456	0	0.00000E+00	440862.7	3761228.1	203.6	3.66	2.33
2.89	YES						
L0035457	0	0.00000E+00	440867.7	3761228.8	203.7	3.66	2.33
2.89	YES						
L0035458	0	0.00000E+00	440872.6	3761229.5	203.8	3.66	2.33
2.89	YES						
L0035459	0	0.00000E+00	440877.6	3761230.2	203.9	3.66	2.33
2.89	YES						
L0035460	0	0.00000E+00	440882.5	3761230.9	203.9	3.66	2.33
2.89	YES						
L0035461	0	0.00000E+00	440887.5	3761231.1	203.9	3.66	2.33
2.89	YES						
L0035462	0	0.00000E+00	440892.5	3761231.1	204.0	3.66	2.33
2.89	YES						
L0035463	0	0.00000E+00	440897.5	3761231.2	204.0	3.66	2.33
2.89	YES						
L0035464	0	0.00000E+00	440902.5	3761231.3	204.0	3.66	2.33
2.89	YES						
L0035465	0	0.00000E+00	440907.5	3761231.4	204.0	3.66	2.33
2.89	YES						
L0035466	0	0.00000E+00	440912.5	3761231.5	204.1	3.66	2.33
2.89	YES						

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L0035467	0	0.00000E+00	440917.5	3761231.6	204.1	3.66	2.33
2.89	YES						
L0035468	0	0.00000E+00	440922.5	3761231.7	204.1	3.66	2.33
2.89	YES						
L0035469	0	0.00000E+00	440927.5	3761231.8	204.1	3.66	2.33
2.89	YES						
L0035470	0	0.00000E+00	440932.5	3761231.9	204.1	3.66	2.33
2.89	YES						
L0035471	0	0.00000E+00	440937.5	3761232.0	204.1	3.66	2.33
2.89	YES						
L0035472	0	0.00000E+00	440942.5	3761232.1	204.1	3.66	2.33
2.89	YES						
L0035473	0	0.00000E+00	440947.5	3761232.2	204.2	3.66	2.33
2.89	YES						
L0035474	0	0.00000E+00	440952.5	3761232.3	204.2	3.66	2.33
2.89	YES						
L0035475	0	0.00000E+00	440957.5	3761232.4	204.2	3.66	2.33
2.89	YES						
L0035476	0	0.00000E+00	440962.5	3761232.4	204.1	3.66	2.33
2.89	YES						
L0035477	0	0.00000E+00	440967.5	3761232.5	204.1	3.66	2.33
2.89	YES						
L0035478	0	0.00000E+00	440972.5	3761232.6	204.1	3.66	2.33
2.89	YES						
L0035479	0	0.00000E+00	440977.5	3761232.7	204.1	3.66	2.33
2.89	YES						
L0035480	0	0.00000E+00	440982.5	3761232.7	204.0	3.66	2.33
2.89	YES						
L0035481	0	0.00000E+00	440987.5	3761232.7	204.0	3.66	2.33
2.89	YES						
L0035482	0	0.00000E+00	440992.5	3761232.7	203.9	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)

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(METERS)

BY

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L0035483	0	0.00000E+00	440997.5	3761232.8	203.9	3.66	2.33
2.89 YES							
L0035484	0	0.00000E+00	441002.5	3761232.8	203.8	3.66	2.33
2.89 YES							
L0035485	0	0.00000E+00	441007.5	3761232.8	203.8	3.66	2.33
2.89 YES							
L0035486	0	0.00000E+00	441012.5	3761232.8	203.8	3.66	2.33
2.89 YES							
L0035487	0	0.00000E+00	441017.5	3761232.8	203.7	3.66	2.33
2.89 YES							
L0035488	0	0.00000E+00	441022.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035489	0	0.00000E+00	441027.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035490	0	0.00000E+00	441032.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035491	0	0.00000E+00	441037.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035492	0	0.00000E+00	441042.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035493	0	0.00000E+00	441047.5	3761233.0	203.7	3.66	2.33
2.89 YES							
L0035494	0	0.00000E+00	441052.5	3761233.0	203.7	3.66	2.33
2.89 YES							
L0035495	0	0.00000E+00	441057.5	3761232.9	203.7	3.66	2.33
2.89 YES							
L0035496	0	0.00000E+00	441062.5	3761232.8	203.7	3.66	2.33
2.89 YES							
L0035497	0	0.00000E+00	441067.5	3761232.7	203.7	3.66	2.33
2.89 YES							
L0035498	0	0.00000E+00	441072.5	3761232.6	203.7	3.66	2.33
2.89 YES							
L0035499	0	0.00000E+00	441077.5	3761232.5	203.7	3.66	2.33
2.89 YES							
L0035500	0	0.00000E+00	441082.5	3761232.4	203.7	3.66	2.33
2.89 YES							
L0035501	0	0.00000E+00	441087.5	3761232.3	203.7	3.66	2.33
2.89 YES							
L0035502	0	0.00000E+00	441092.5	3761232.2	203.7	3.66	2.33
2.89 YES							
L0035503	0	0.00000E+00	441097.5	3761232.1	203.6	3.66	2.33
2.89 YES							
L0035504	0	0.00000E+00	441102.5	3761232.0	203.6	3.66	2.33
2.89 YES							

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L0035505	0	0.00000E+00	441107.4	3761231.2	203.6	3.66	2.33
2.89	YES						
L0035506	0	0.00000E+00	441112.1	3761229.6	203.5	3.66	2.33
2.89	YES						
L0035507	0	0.00000E+00	441116.9	3761228.1	203.5	3.66	2.33
2.89	YES						
L0035508	0	0.00000E+00	441121.6	3761226.5	203.5	3.66	2.33
2.89	YES						
L0035509	0	0.00000E+00	441125.5	3761223.8	203.4	3.66	2.33
2.89	YES						
L0035510	0	0.00000E+00	441127.9	3761219.5	203.3	3.66	2.33
2.89	YES						
L0035511	0	0.00000E+00	441130.3	3761215.1	203.3	3.66	2.33
2.89	YES						
L0035512	0	0.00000E+00	441132.8	3761210.8	203.2	3.66	2.33
2.89	YES						
L0035513	0	0.00000E+00	441135.2	3761206.4	203.2	3.66	2.33
2.89	YES						
L0035514	0	0.00000E+00	441135.1	3761201.4	203.2	3.66	2.33
2.89	YES						
L0035515	0	0.00000E+00	441135.1	3761196.4	203.1	3.66	2.33
2.89	YES						
L0035516	0	0.00000E+00	441135.0	3761191.4	203.1	3.66	2.33
2.89	YES						
L0035517	0	0.00000E+00	441135.0	3761186.4	203.1	3.66	2.33
2.89	YES						
L0035518	0	0.00000E+00	441134.9	3761181.4	203.1	3.66	2.33
2.89	YES						
L0035519	0	0.00000E+00	441134.9	3761176.4	203.0	3.66	2.33
2.89	YES						
L0035520	0	0.00000E+00	441134.7	3761171.4	203.0	3.66	2.33
2.89	YES						
L0035521	0	0.00000E+00	441134.3	3761166.4	203.0	3.66	2.33
2.89	YES						
L0035522	0	0.00000E+00	441133.8	3761161.4	203.0	3.66	2.33
2.89	YES						

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\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.
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INIT. SOURCE SZ	URBAN SOURCE ID	EMISSION RATE PART. SCALAR	(GRAMS/SEC) VARY CATS.	X	Y	ELEV.	HEIGHT	SY
				(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0035523		0	0.00000E+00	441133.4	3761156.4	202.9	3.66	2.33
2.89	YES							
L0035524		0	0.00000E+00	441131.3	3761152.6	203.0	3.66	2.33
2.89	YES							
L0035525		0	0.00000E+00	441126.8	3761150.5	203.1	3.66	2.33
2.89	YES							
L0035526		0	0.00000E+00	441122.3	3761148.3	203.1	3.66	2.33
2.89	YES							
L0035527		0	0.00000E+00	441117.7	3761146.5	203.2	3.66	2.33
2.89	YES							
L0035528		0	0.00000E+00	441112.7	3761146.5	203.3	3.66	2.33
2.89	YES							
L0035529		0	0.00000E+00	441107.7	3761146.4	203.4	3.66	2.33
2.89	YES							
L0035530		0	0.00000E+00	441102.7	3761146.4	203.4	3.66	2.33
2.89	YES							
L0035531		0	0.00000E+00	441097.7	3761146.4	203.5	3.66	2.33
2.89	YES							
L0035532		0	0.00000E+00	441092.7	3761146.3	203.5	3.66	2.33
2.89	YES							
L0035533		0	0.00000E+00	441087.7	3761146.3	203.5	3.66	2.33
2.89	YES							
L0035534		0	0.00000E+00	441082.7	3761146.3	203.5	3.66	2.33
2.89	YES							
L0035535		0	0.00000E+00	441077.7	3761146.2	203.5	3.66	2.33
2.89	YES							
L0035536		0	0.00000E+00	441072.7	3761146.2	203.5	3.66	2.33
2.89	YES							
L0035537		0	0.00000E+00	441067.7	3761146.2	203.4	3.66	2.33
2.89	YES							
L0035538		0	0.00000E+00	441062.7	3761146.1	203.4	3.66	2.33
2.89	YES							
L0035539		0	0.00000E+00	441057.7	3761146.1	203.4	3.66	2.33
2.89	YES							
L0035540		0	0.00000E+00	441052.7	3761146.1	203.3	3.66	2.33
2.89	YES							
L0035541		0	0.00000E+00	441047.7	3761146.0	203.2	3.66	2.33
2.89	YES							
L0035542		0	0.00000E+00	441042.7	3761146.0	203.2	3.66	2.33
2.89	YES							

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L0035543	0	0.00000E+00	441037.7	3761146.0	203.1	3.66	2.33
2.89 YES							
L0035544	0	0.00000E+00	441032.7	3761146.0	203.0	3.66	2.33
2.89 YES							
L0035545	0	0.00000E+00	441027.7	3761145.9	203.0	3.66	2.33
2.89 YES							
L0035546	0	0.00000E+00	441022.7	3761145.9	203.0	3.66	2.33
2.89 YES							
L0035547	0	0.00000E+00	441017.7	3761145.9	203.0	3.66	2.33
2.89 YES							
L0035548	0	0.00000E+00	441012.7	3761145.8	203.0	3.66	2.33
2.89 YES							
L0035549	0	0.00000E+00	441007.7	3761145.8	203.0	3.66	2.33
2.89 YES							
L0035550	0	0.00000E+00	441002.7	3761145.8	203.1	3.66	2.33
2.89 YES							
L0035551	0	0.00000E+00	440997.7	3761145.8	203.3	3.66	2.33
2.89 YES							
L0035552	0	0.00000E+00	440992.7	3761145.7	203.5	3.66	2.33
2.89 YES							
L0035553	0	0.00000E+00	440987.7	3761145.7	203.6	3.66	2.33
2.89 YES							
L0035554	0	0.00000E+00	440982.7	3761145.7	203.8	3.66	2.33
2.89 YES							
L0035555	0	0.00000E+00	440977.7	3761145.7	204.0	3.66	2.33
2.89 YES							
L0035556	0	0.00000E+00	440972.7	3761145.6	204.1	3.66	2.33
2.89 YES							
L0035557	0	0.00000E+00	440967.7	3761145.6	204.2	3.66	2.33
2.89 YES							
L0035558	0	0.00000E+00	440962.7	3761145.6	204.2	3.66	2.33
2.89 YES							
L0035559	0	0.00000E+00	440957.7	3761145.6	204.3	3.66	2.33
2.89 YES							
L0035560	0	0.00000E+00	440952.7	3761145.5	204.4	3.66	2.33
2.89 YES							
L0035561	0	0.00000E+00	440947.7	3761145.5	204.4	3.66	2.33
2.89 YES							
L0035562	0	0.00000E+00	440942.7	3761145.5	204.4	3.66	2.33
2.89 YES							

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY						
L0035563	0	0.00000E+00	440937.7	3761145.5	204.4	3.66	2.33	
2.89	YES							
L0035564	0	0.00000E+00	440932.7	3761145.4	204.4	3.66	2.33	
2.89	YES							
L0035565	0	0.00000E+00	440927.7	3761145.4	204.3	3.66	2.33	
2.89	YES							
L0035566	0	0.00000E+00	440922.7	3761145.4	204.2	3.66	2.33	
2.89	YES							
L0035567	0	0.00000E+00	440917.7	3761145.4	204.1	3.66	2.33	
2.89	YES							
L0035568	0	0.00000E+00	440912.7	3761145.3	204.0	3.66	2.33	
2.89	YES							
L0035569	0	0.00000E+00	440907.7	3761145.3	203.9	3.66	2.33	
2.89	YES							
L0035570	0	0.00000E+00	440902.7	3761145.3	203.8	3.66	2.33	
2.89	YES							
L0035571	0	0.00000E+00	440897.7	3761145.3	203.6	3.66	2.33	
2.89	YES							
L0035572	0	0.00000E+00	440892.7	3761145.2	203.4	3.66	2.33	
2.89	YES							
L0035573	0	0.00000E+00	440887.7	3761145.2	203.2	3.66	2.33	
2.89	YES							
L0035574	0	0.00000E+00	440882.7	3761145.2	203.0	3.66	2.33	
2.89	YES							
L0035575	0	0.00000E+00	440877.7	3761145.2	202.9	3.66	2.33	
2.89	YES							
L0035576	0	0.00000E+00	440872.7	3761145.2	202.8	3.66	2.33	
2.89	YES							
L0035577	0	0.00000E+00	440867.7	3761145.2	202.7	3.66	2.33	
2.89	YES							
L0035578	0	0.00000E+00	440862.7	3761145.2	202.7	3.66	2.33	
2.89	YES							
L0035579	0	0.00000E+00	440857.7	3761145.2	202.6	3.66	2.33	
2.89	YES							
L0035580	0	0.00000E+00	440852.7	3761145.2	202.5	3.66	2.33	
2.89	YES							

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L0035581	0	0.00000E+00	440847.7	3761145.2	202.5	3.66	2.33
2.89	YES						
L0035582	0	0.00000E+00	440842.7	3761145.2	202.5	3.66	2.33
2.89	YES						
L0035583	0	0.00000E+00	440837.7	3761145.2	202.4	3.66	2.33
2.89	YES						
L0035584	0	0.00000E+00	440832.7	3761145.2	202.4	3.66	2.33
2.89	YES						
L0035585	0	0.00000E+00	440827.7	3761145.2	202.4	3.66	2.33
2.89	YES						
L0035586	0	0.00000E+00	440822.7	3761145.2	202.3	3.66	2.33
2.89	YES						
L0035587	0	0.00000E+00	440817.7	3761145.2	202.2	3.66	2.33
2.89	YES						
L0044694	0	0.00000E+00	441656.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044695	0	0.00000E+00	441659.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044696	0	0.00000E+00	441662.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044697	0	0.00000E+00	441665.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044698	0	0.00000E+00	441668.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044699	0	0.00000E+00	441671.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044700	0	0.00000E+00	441674.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044701	0	0.00000E+00	441677.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044702	0	0.00000E+00	441680.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044703	0	0.00000E+00	441683.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044704	0	0.00000E+00	441686.1	3760562.5	200.5	3.66	1.40
2.89	YES						
L0044705	0	0.00000E+00	441689.1	3760562.5	200.5	3.66	1.40
2.89	YES						
L0044706	0	0.00000E+00	441692.1	3760562.5	200.5	3.66	1.40
2.89	YES						
L0044707	0	0.00000E+00	441695.1	3760562.5	200.5	3.66	1.40
2.89	YES						
L0044708	0	0.00000E+00	441698.1	3760562.5	200.5	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0044709		0	0.00000E+00	441701.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044710		0	0.00000E+00	441704.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044711		0	0.00000E+00	441707.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044712		0	0.00000E+00	441710.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044713		0	0.00000E+00	441713.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044714		0	0.00000E+00	441716.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044715		0	0.00000E+00	441719.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044716		0	0.00000E+00	441722.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044717		0	0.00000E+00	441725.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044718		0	0.00000E+00	441728.1	3760562.5	200.5	3.66	1.40
2.89	YES							
L0044719		0	0.00000E+00	441731.1	3760562.5	200.4	3.66	1.40
2.89	YES							
L0044720		0	0.00000E+00	441734.1	3760562.5	200.4	3.66	1.40
2.89	YES							
L0044721		0	0.00000E+00	441737.1	3760562.5	200.4	3.66	1.40
2.89	YES							
L0044722		0	0.00000E+00	441740.1	3760562.5	200.4	3.66	1.40
2.89	YES							
L0044723		0	0.00000E+00	441743.1	3760562.5	200.4	3.66	1.40
2.89	YES							
L0044724		0	0.00000E+00	441746.1	3760562.5	200.4	3.66	1.40
2.89	YES							

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L0044725	0	0.00000E+00	441749.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044726	0	0.00000E+00	441752.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044727	0	0.00000E+00	441755.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044728	0	0.00000E+00	441758.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044729	0	0.00000E+00	441761.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044730	0	0.00000E+00	441764.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044731	0	0.00000E+00	441767.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044732	0	0.00000E+00	441770.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044733	0	0.00000E+00	441773.1	3760562.5	200.4	3.66	1.40
2.89	YES						
L0044734	0	0.00000E+00	441776.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044735	0	0.00000E+00	441779.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044736	0	0.00000E+00	441782.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044737	0	0.00000E+00	441785.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044738	0	0.00000E+00	441788.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044739	0	0.00000E+00	441791.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044740	0	0.00000E+00	441794.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044741	0	0.00000E+00	441797.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044742	0	0.00000E+00	441800.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044743	0	0.00000E+00	441803.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044744	0	0.00000E+00	441806.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044745	0	0.00000E+00	441809.1	3760562.5	200.3	3.66	1.40
2.89	YES						
L0044746	0	0.00000E+00	441812.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044747	0	0.00000E+00	441815.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044748	0	0.00000E+00	441818.1	3760562.5	200.2	3.66	1.40
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)							
L0044749		0	0.00000E+00	441821.1	3760562.5	200.2	1.40
2.89	YES						
L0044750		0	0.00000E+00	441824.1	3760562.5	200.2	1.40
2.89	YES						
L0044751		0	0.00000E+00	441827.1	3760562.5	200.2	1.40
2.89	YES						
L0044752		0	0.00000E+00	441830.1	3760562.5	200.2	1.40
2.89	YES						
L0044753		0	0.00000E+00	441833.1	3760562.5	200.2	1.40
2.89	YES						
L0044754		0	0.00000E+00	441836.1	3760562.5	200.2	1.40
2.89	YES						
L0044755		0	0.00000E+00	441839.1	3760562.5	200.2	1.40
2.89	YES						
L0044756		0	0.00000E+00	441842.1	3760562.5	200.2	1.40
2.89	YES						
L0044757		0	0.00000E+00	441845.1	3760562.5	200.2	1.40
2.89	YES						
L0044758		0	0.00000E+00	441848.1	3760562.5	200.2	1.40
2.89	YES						
L0044759		0	0.00000E+00	441851.1	3760562.5	200.2	1.40
2.89	YES						
L0044760		0	0.00000E+00	441854.1	3760562.5	200.2	1.40
2.89	YES						
L0044761		0	0.00000E+00	441857.1	3760562.5	200.2	1.40
2.89	YES						
L0044762		0	0.00000E+00	441860.1	3760562.5	200.2	1.40
2.89	YES						

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L0044763	0	0.00000E+00	441863.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044764	0	0.00000E+00	441866.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044765	0	0.00000E+00	441869.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044766	0	0.00000E+00	441872.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044767	0	0.00000E+00	441875.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044768	0	0.00000E+00	441878.1	3760562.5	200.2	3.66	1.40
2.89	YES						
L0044769	0	0.34410E-07	441750.5	3760499.5	200.0	3.66	2.33
2.89	YES						
L0044770	0	0.34410E-07	441755.5	3760499.9	200.0	3.66	2.33
2.89	YES						
L0044771	0	0.34410E-07	441760.5	3760500.3	200.0	3.66	2.33
2.89	YES						
L0044772	0	0.34410E-07	441765.4	3760500.7	200.0	3.66	2.33
2.89	YES						
L0044773	0	0.34410E-07	441770.4	3760501.1	200.0	3.66	2.33
2.89	YES						
L0044774	0	0.34410E-07	441775.4	3760501.5	200.0	3.66	2.33
2.89	YES						
L0044775	0	0.34410E-07	441780.4	3760501.9	200.0	3.66	2.33
2.89	YES						
L0044776	0	0.34410E-07	441785.4	3760502.3	200.0	3.66	2.33
2.89	YES						
L0044777	0	0.34410E-07	441790.4	3760502.8	200.0	3.66	2.33
2.89	YES						
L0044778	0	0.34410E-07	441795.3	3760503.2	200.0	3.66	2.33
2.89	YES						
L0044779	0	0.34410E-07	441800.3	3760503.6	200.0	3.66	2.33
2.89	YES						
L0044780	0	0.34410E-07	441805.3	3760504.0	200.0	3.66	2.33
2.89	YES						
L0044781	0	0.34410E-07	441810.3	3760504.4	200.0	3.66	2.33
2.89	YES						
L0044782	0	0.34410E-07	441815.3	3760504.8	199.9	3.66	2.33
2.89	YES						
L0044783	0	0.34410E-07	441820.2	3760505.3	199.9	3.66	2.33
2.89	YES						
L0044784	0	0.34410E-07	441825.2	3760505.8	199.9	3.66	2.33
2.89	YES						
L0044785	0	0.34410E-07	441830.2	3760506.4	199.9	3.66	2.33
2.89	YES						
L0044786	0	0.34410E-07	441835.2	3760506.9	199.9	3.66	2.33
2.89	YES						

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L0044787            0    0.34410E-07   441840.1 3760507.5   199.9        3.66        2.33  
 2.89    YES  
 L0044788            0    0.34410E-07   441845.1 3760508.0   199.9        3.66        2.33  
 2.89    YES

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY						

L0044789	0	0.34410E-07	441850.1	3760508.6	199.9	3.66	2.33
2.89	YES						
L0044790	0	0.34410E-07	441855.0	3760509.2	199.9	3.66	2.33
2.89	YES						
L0044791	0	0.34410E-07	441860.0	3760509.7	199.9	3.66	2.33
2.89	YES						
L0044792	0	0.34410E-07	441865.0	3760510.3	199.9	3.66	2.33
2.89	YES						
L0044793	0	0.34410E-07	441869.9	3760510.8	199.9	3.66	2.33
2.89	YES						
L0044794	0	0.34410E-07	441874.9	3760511.4	200.0	3.66	2.33
2.89	YES						
L0044795	0	0.34410E-07	441879.9	3760511.9	200.0	3.66	2.33
2.89	YES						
L0044796	0	0.34410E-07	441884.8	3760512.5	200.0	3.66	2.33
2.89	YES						
L0044797	0	0.34410E-07	441889.8	3760513.0	200.0	3.66	2.33
2.89	YES						
L0044798	0	0.34410E-07	441894.8	3760513.6	200.0	3.66	2.33
2.89	YES						
L0044799	0	0.34410E-07	441899.8	3760514.1	200.0	3.66	2.33
2.89	YES						
L0044800	0	0.34410E-07	441904.7	3760514.7	200.0	3.66	2.33
2.89	YES						

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L0044801	0	0.34410E-07	441909.5	3760515.7	200.1	3.66	2.33
2.89	YES						
L0044802	0	0.34410E-07	441913.6	3760518.6	200.1	3.66	2.33
2.89	YES						
L0044803	0	0.34410E-07	441917.6	3760521.5	200.1	3.66	2.33
2.89	YES						
L0044804	0	0.34410E-07	441921.7	3760524.5	200.2	3.66	2.33
2.89	YES						
L0044805	0	0.34410E-07	441925.8	3760527.4	200.2	3.66	2.33
2.89	YES						
L0044806	0	0.34410E-07	441929.8	3760530.3	200.2	3.66	2.33
2.89	YES						
L0044807	0	0.34410E-07	441931.7	3760534.6	200.3	3.66	2.33
2.89	YES						
L0044808	0	0.34410E-07	441932.8	3760539.5	200.3	3.66	2.33
2.89	YES						
L0044809	0	0.34410E-07	441933.9	3760544.4	200.4	3.66	2.33
2.89	YES						
L0044810	0	0.34410E-07	441935.0	3760549.3	200.4	3.66	2.33
2.89	YES						
L0044811	0	0.34410E-07	441936.1	3760554.2	200.5	3.66	2.33
2.89	YES						
L0044812	0	0.34410E-07	441936.0	3760559.1	200.5	3.66	2.33
2.89	YES						
L0044813	0	0.34410E-07	441935.6	3760564.1	200.5	3.66	2.33
2.89	YES						
L0044814	0	0.34410E-07	441935.2	3760569.1	200.6	3.66	2.33
2.89	YES						
L0044815	0	0.34410E-07	441934.8	3760574.1	200.6	3.66	2.33
2.89	YES						
L0044816	0	0.34410E-07	441934.4	3760579.0	200.6	3.66	2.33
2.89	YES						
L0044817	0	0.34410E-07	441934.0	3760584.0	200.7	3.66	2.33
2.89	YES						
L0044818	0	0.34410E-07	441933.0	3760588.8	200.7	3.66	2.33
2.89	YES						
L0044819	0	0.34410E-07	441929.7	3760592.5	200.7	3.66	2.33
2.89	YES						
L0044820	0	0.34410E-07	441926.3	3760596.2	200.7	3.66	2.33
2.89	YES						
L0044821	0	0.34410E-07	441922.9	3760599.9	200.8	3.66	2.33
2.89	YES						
L0044822	0	0.34410E-07	441919.6	3760603.6	200.8	3.66	2.33
2.89	YES						
L0044823	0	0.34410E-07	441916.0	3760607.0	200.8	3.66	2.33
2.89	YES						
L0044824	0	0.34410E-07	441911.4	3760608.9	200.9	3.66	2.33
2.89	YES						

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L0044825	0	0.34410E-07	441906.8	3760610.7	200.9	3.66	2.33
2.89	YES						
L0044826	0	0.34410E-07	441902.1	3760612.6	200.9	3.66	2.33
2.89	YES						
L0044827	0	0.34410E-07	441897.5	3760614.5	200.9	3.66	2.33
2.89	YES						
L0044828	0	0.34410E-07	441892.8	3760616.3	201.0	3.66	2.33
2.89	YES						

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y		
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)

L0044829	0	0.34410E-07	441888.0	3760617.6	201.0	3.66	2.33
2.89	YES						
L0044830	0	0.34410E-07	441883.1	3760618.2	201.0	3.66	2.33
2.89	YES						
L0044831	0	0.34410E-07	441878.1	3760618.7	201.0	3.66	2.33
2.89	YES						
L0044832	0	0.34410E-07	441873.1	3760619.2	201.0	3.66	2.33
2.89	YES						
L0044833	0	0.34410E-07	441868.2	3760619.7	201.0	3.66	2.33
2.89	YES						
L0044834	0	0.34410E-07	441863.2	3760620.2	201.0	3.66	2.33
2.89	YES						
L0044835	0	0.34410E-07	441858.2	3760620.8	201.0	3.66	2.33
2.89	YES						
L0044836	0	0.34410E-07	441853.2	3760621.3	201.1	3.66	2.33
2.89	YES						
L0044837	0	0.34410E-07	441848.3	3760621.8	201.1	3.66	2.33
2.89	YES						
L0044838	0	0.34410E-07	441843.3	3760622.3	201.1	3.66	2.33
2.89	YES						

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L0044839	0	0.34410E-07	441838.3	3760622.7	201.1	3.66	2.33
2.89	YES						
L0044840	0	0.34410E-07	441833.3	3760622.6	201.1	3.66	2.33
2.89	YES						
L0044841	0	0.34410E-07	441828.3	3760622.5	201.1	3.66	2.33
2.89	YES						
L0044842	0	0.34410E-07	441823.3	3760622.4	201.1	3.66	2.33
2.89	YES						
L0044843	0	0.34410E-07	441818.3	3760622.3	201.1	3.66	2.33
2.89	YES						
L0044844	0	0.34410E-07	441813.3	3760622.2	201.1	3.66	2.33
2.89	YES						
L0044845	0	0.34410E-07	441808.3	3760622.1	201.1	3.66	2.33
2.89	YES						
L0044846	0	0.34410E-07	441803.3	3760622.0	201.2	3.66	2.33
2.89	YES						
L0044847	0	0.34410E-07	441798.3	3760621.9	201.2	3.66	2.33
2.89	YES						
L0044848	0	0.34410E-07	441793.3	3760621.8	201.2	3.66	2.33
2.89	YES						
L0044849	0	0.34410E-07	441788.3	3760621.7	201.1	3.66	2.33
2.89	YES						
L0044850	0	0.34410E-07	441783.3	3760621.6	201.1	3.66	2.33
2.89	YES						
L0044851	0	0.34410E-07	441778.3	3760621.5	201.1	3.66	2.33
2.89	YES						
L0044852	0	0.34410E-07	441773.3	3760621.4	201.1	3.66	2.33
2.89	YES						
L0044853	0	0.34410E-07	441768.3	3760621.3	201.1	3.66	2.33
2.89	YES						
L0044854	0	0.34410E-07	441763.3	3760621.2	201.1	3.66	2.33
2.89	YES						
L0044855	0	0.34410E-07	441758.3	3760621.1	201.1	3.66	2.33
2.89	YES						
L0044856	0	0.34410E-07	441753.3	3760621.0	201.1	3.66	2.33
2.89	YES						
L0044857	0	0.34410E-07	441748.3	3760620.9	201.1	3.66	2.33
2.89	YES						
L0044858	0	0.34410E-07	441743.3	3760620.8	201.1	3.66	2.33
2.89	YES						
L0044859	0	0.34410E-07	441738.3	3760620.7	201.1	3.66	2.33
2.89	YES						
L0044860	0	0.34410E-07	441733.3	3760620.6	201.1	3.66	2.33
2.89	YES						
L0044861	0	0.34410E-07	441728.3	3760620.5	201.1	3.66	2.33
2.89	YES						
L0044862	0	0.34410E-07	441723.3	3760620.4	201.1	3.66	2.33
2.89	YES						



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L0044863	0	0.34410E-07	441718.3	3760620.3	201.1	3.66	2.33
2.89	YES						
L0044864	0	0.34410E-07	441713.3	3760620.2	201.1	3.66	2.33
2.89	YES						
L0044865	0	0.34410E-07	441708.3	3760620.1	201.1	3.66	2.33
2.89	YES						
L0044866	0	0.34410E-07	441703.3	3760619.9	201.1	3.66	2.33
2.89	YES						
L0044867	0	0.34410E-07	441698.3	3760619.8	201.1	3.66	2.33
2.89	YES						
L0044868	0	0.34410E-07	441693.3	3760619.7	201.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0044869	0	0.34410E-07	441688.3	3760619.6	201.0	3.66	2.33	
2.89	YES							
L0044870	0	0.34410E-07	441683.3	3760619.5	201.0	3.66	2.33	
2.89	YES							
L0044871	0	0.34410E-07	441678.3	3760619.4	201.0	3.66	2.33	
2.89	YES							
L0044872	0	0.34410E-07	441673.4	3760619.3	200.9	3.66	2.33	
2.89	YES							
L0044873	0	0.34410E-07	441668.4	3760619.2	200.9	3.66	2.33	
2.89	YES							
L0044874	0	0.34410E-07	441663.4	3760618.7	200.9	3.66	2.33	
2.89	YES							
L0044875	0	0.34410E-07	441658.5	3760617.6	200.8	3.66	2.33	
2.89	YES							
L0044876	0	0.34410E-07	441653.6	3760616.6	200.8	3.66	2.33	
2.89	YES							

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L0044877	0	0.34410E-07	441648.7	3760615.6	200.8	3.66	2.33
2.89	YES						
L0044878	0	0.34410E-07	441643.8	3760614.5	200.8	3.66	2.33
2.89	YES						
L0044879	0	0.34410E-07	441638.9	3760613.5	200.8	3.66	2.33
2.89	YES						
L0044880	0	0.34410E-07	441634.1	3760612.5	200.8	3.66	2.33
2.89	YES						
L0044881	0	0.34410E-07	441629.2	3760611.4	200.7	3.66	2.33
2.89	YES						
L0044882	0	0.34410E-07	441624.3	3760610.4	200.7	3.66	2.33
2.89	YES						
L0044883	0	0.34410E-07	441619.4	3760609.4	200.7	3.66	2.33
2.89	YES						
L0044884	0	0.34410E-07	441614.9	3760607.8	200.7	3.66	2.33
2.89	YES						
L0044885	0	0.34410E-07	441612.5	3760603.4	200.6	3.66	2.33
2.89	YES						
L0044886	0	0.34410E-07	441610.2	3760599.0	200.6	3.66	2.33
2.89	YES						
L0044887	0	0.34410E-07	441607.8	3760594.6	200.5	3.66	2.33
2.89	YES						
L0044888	0	0.34410E-07	441605.5	3760590.2	200.5	3.66	2.33
2.89	YES						
L0044889	0	0.34410E-07	441603.1	3760585.8	200.4	3.66	2.33
2.89	YES						
L0044890	0	0.34410E-07	441601.0	3760581.3	200.4	3.66	2.33
2.89	YES						
L0044891	0	0.34410E-07	441600.2	3760576.3	200.3	3.66	2.33
2.89	YES						
L0044892	0	0.34410E-07	441599.4	3760571.4	200.3	3.66	2.33
2.89	YES						
L0044893	0	0.34410E-07	441598.6	3760566.5	200.2	3.66	2.33
2.89	YES						
L0044894	0	0.34410E-07	441597.8	3760561.5	200.2	3.66	2.33
2.89	YES						
L0044895	0	0.34410E-07	441597.0	3760556.6	200.2	3.66	2.33
2.89	YES						
L0044896	0	0.34410E-07	441597.5	3760551.8	200.1	3.66	2.33
2.89	YES						
L0044897	0	0.34410E-07	441599.3	3760547.1	200.1	3.66	2.33
2.89	YES						
L0044898	0	0.34410E-07	441601.0	3760542.4	200.1	3.66	2.33
2.89	YES						
L0044899	0	0.34410E-07	441602.7	3760537.7	200.1	3.66	2.33
2.89	YES						
L0044900	0	0.34410E-07	441604.5	3760533.0	200.0	3.66	2.33
2.89	YES						

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L0044901	0	0.34410E-07	441607.2	3760529.1	200.0	3.66	2.33
2.89	YES						
L0044902	0	0.34410E-07	441611.3	3760526.4	200.0	3.66	2.33
2.89	YES						
L0044903	0	0.34410E-07	441615.5	3760523.6	200.1	3.66	2.33
2.89	YES						
L0044904	0	0.34410E-07	441619.7	3760520.8	200.1	3.66	2.33
2.89	YES						
L0044905	0	0.34410E-07	441623.8	3760518.0	200.1	3.66	2.33
2.89	YES						
L0044906	0	0.34410E-07	441628.0	3760515.3	200.2	3.66	2.33
2.89	YES						
L0044907	0	0.34410E-07	441632.5	3760513.3	200.2	3.66	2.33
2.89	YES						
L0044908	0	0.34410E-07	441637.3	3760511.8	200.2	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0044909	0	0.34410E-07	441642.1	3760510.2	200.3	3.66	2.33
2.89	YES						
L0044910	0	0.34410E-07	441646.8	3760508.7	200.2	3.66	2.33
2.89	YES						
L0044911	0	0.34410E-07	441651.6	3760507.2	200.2	3.66	2.33
2.89	YES						
L0044912	0	0.34410E-07	441656.4	3760505.7	200.2	3.66	2.33
2.89	YES						
L0044913	0	0.34410E-07	441661.1	3760504.2	200.2	3.66	2.33
2.89	YES						
L0044914	0	0.34410E-07	441665.9	3760502.6	200.1	3.66	2.33
2.89	YES						

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L0044915	0	0.34410E-07	441670.6	3760501.1	200.1	3.66	2.33
2.89	YES						
L0044916	0	0.34410E-07	441675.6	3760500.8	200.1	3.66	2.33
2.89	YES						
L0044917	0	0.34410E-07	441680.6	3760500.8	200.1	3.66	2.33
2.89	YES						
L0044918	0	0.34410E-07	441685.6	3760500.7	200.1	3.66	2.33
2.89	YES						
L0044919	0	0.34410E-07	441690.6	3760500.6	200.1	3.66	2.33
2.89	YES						
L0044920	0	0.34410E-07	441695.6	3760500.5	200.1	3.66	2.33
2.89	YES						
L0044921	0	0.34410E-07	441700.6	3760500.4	200.1	3.66	2.33
2.89	YES						
L0044922	0	0.34410E-07	441705.6	3760500.3	200.1	3.66	2.33
2.89	YES						
L0044923	0	0.34410E-07	441710.6	3760500.2	200.1	3.66	2.33
2.89	YES						
L0044924	0	0.34410E-07	441715.6	3760500.1	200.1	3.66	2.33
2.89	YES						
L0044925	0	0.34410E-07	441720.6	3760500.0	200.1	3.66	2.33
2.89	YES						
L0044926	0	0.34410E-07	441725.6	3760499.9	200.1	3.66	2.33
2.89	YES						
L0044927	0	0.34410E-07	441730.6	3760499.9	200.1	3.66	2.33
2.89	YES						
L0044928	0	0.34410E-07	441735.6	3760499.8	200.0	3.66	2.33
2.89	YES						
L0044929	0	0.34410E-07	441740.6	3760499.7	200.0	3.66	2.33
2.89	YES						
L0044930	0	0.13240E-06	441964.3	3760855.9	202.7	3.66	2.33
2.89	YES						
L0044931	0	0.13240E-06	441969.3	3760855.9	202.7	3.66	2.33
2.89	YES						
L0044932	0	0.13240E-06	441974.3	3760855.8	202.6	3.66	2.33
2.89	YES						
L0044933	0	0.13240E-06	441979.3	3760855.8	202.6	3.66	2.33
2.89	YES						
L0044934	0	0.13240E-06	441984.3	3760855.8	202.6	3.66	2.33
2.89	YES						
L0044935	0	0.13240E-06	441989.3	3760855.8	202.5	3.66	2.33
2.89	YES						
L0044936	0	0.13240E-06	441994.3	3760855.8	202.5	3.66	2.33
2.89	YES						
L0044937	0	0.54550E-07	440992.8	3760508.7	198.7	3.66	2.33
2.89	YES						
L0044938	0	0.54550E-07	440997.8	3760509.3	198.9	3.66	2.33
2.89	YES						

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L0044939	0	0.54550E-07	441002.8	3760509.9	199.0	3.66	2.33
2.89	YES						
L0044940	0	0.54550E-07	441007.7	3760510.4	199.0	3.66	2.33
2.89	YES						
L0044941	0	0.54550E-07	441012.7	3760511.0	199.1	3.66	2.33
2.89	YES						
L0044942	0	0.54550E-07	441017.7	3760511.5	199.1	3.66	2.33
2.89	YES						
L0044943	0	0.54550E-07	441022.6	3760512.1	199.2	3.66	2.33
2.89	YES						
L0044944	0	0.54550E-07	441027.6	3760512.7	199.2	3.66	2.33
2.89	YES						
L0044945	0	0.54550E-07	441032.5	3760513.6	199.2	3.66	2.33
2.89	YES						
L0044946	0	0.54550E-07	441037.3	3760514.9	199.3	3.66	2.33
2.89	YES						
L0044947	0	0.54550E-07	441042.1	3760516.2	199.3	3.66	2.33
2.89	YES						
L0044948	0	0.54550E-07	441047.0	3760517.5	199.3	3.66	2.33
2.89	YES						

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0044949	0	0.54550E-07	441051.8	3760518.9	199.3	3.66	2.33
2.89	YES						
L0044950	0	0.54550E-07	441056.6	3760520.2	199.4	3.66	2.33
2.89	YES						
L0044951	0	0.54550E-07	441061.4	3760521.5	199.4	3.66	2.33
2.89	YES						
L0044952	0	0.54550E-07	441066.2	3760522.9	199.4	3.66	2.33
2.89	YES						

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L0044953	0	0.54550E-07	441071.1	3760524.2	199.4	3.66	2.33
2.89	YES						
L0044954	0	0.54550E-07	441075.9	3760525.5	199.4	3.66	2.33
2.89	YES						
L0044955	0	0.54550E-07	441080.7	3760526.8	199.4	3.66	2.33
2.89	YES						
L0044956	0	0.54550E-07	441085.5	3760528.2	199.4	3.66	2.33
2.89	YES						
L0044957	0	0.54550E-07	441089.5	3760531.2	199.4	3.66	2.33
2.89	YES						
L0044958	0	0.54550E-07	441093.5	3760534.2	199.4	3.66	2.33
2.89	YES						
L0044959	0	0.54550E-07	441097.5	3760537.3	199.4	3.66	2.33
2.89	YES						
L0044960	0	0.54550E-07	441101.4	3760540.3	199.4	3.66	2.33
2.89	YES						
L0044961	0	0.54550E-07	441105.4	3760543.3	199.4	3.66	2.33
2.89	YES						
L0044962	0	0.54550E-07	441109.4	3760546.4	199.5	3.66	2.33
2.89	YES						
L0044963	0	0.54550E-07	441113.3	3760549.4	199.5	3.66	2.33
2.89	YES						
L0044964	0	0.54550E-07	441117.3	3760552.4	199.5	3.66	2.33
2.89	YES						
L0044965	0	0.54550E-07	441121.3	3760555.5	199.6	3.66	2.33
2.89	YES						
L0044966	0	0.54550E-07	441125.3	3760558.5	199.6	3.66	2.33
2.89	YES						
L0044967	0	0.54550E-07	441127.0	3760563.0	199.7	3.66	2.33
2.89	YES						
L0044968	0	0.54550E-07	441128.2	3760567.8	199.7	3.66	2.33
2.89	YES						
L0044969	0	0.54550E-07	441129.3	3760572.7	199.8	3.66	2.33
2.89	YES						
L0044970	0	0.54550E-07	441130.4	3760577.6	199.8	3.66	2.33
2.89	YES						
L0044971	0	0.54550E-07	441131.6	3760582.4	199.9	3.66	2.33
2.89	YES						
L0044972	0	0.54550E-07	441132.7	3760587.3	199.9	3.66	2.33
2.89	YES						
L0044973	0	0.54550E-07	441133.9	3760592.2	199.9	3.66	2.33
2.89	YES						
L0044974	0	0.54550E-07	441135.0	3760597.1	200.0	3.66	2.33
2.89	YES						
L0044975	0	0.54550E-07	441136.1	3760601.9	200.0	3.66	2.33
2.89	YES						
L0044976	0	0.54550E-07	441136.3	3760606.9	200.1	3.66	2.33
2.89	YES						

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L0044977	0	0.54550E-07	441136.4	3760611.9	200.1	3.66	2.33
2.89	YES						
L0044978	0	0.54550E-07	441136.4	3760616.9	200.2	3.66	2.33
2.89	YES						
L0044979	0	0.54550E-07	441136.5	3760621.9	200.2	3.66	2.33
2.89	YES						
L0044980	0	0.54550E-07	441136.5	3760626.9	200.3	3.66	2.33
2.89	YES						
L0044981	0	0.54550E-07	441136.5	3760631.9	200.3	3.66	2.33
2.89	YES						
L0044982	0	0.54550E-07	441136.6	3760636.9	200.4	3.66	2.33
2.89	YES						
L0044983	0	0.54550E-07	441136.6	3760641.9	200.4	3.66	2.33
2.89	YES						
L0044984	0	0.54550E-07	441136.7	3760646.9	200.4	3.66	2.33
2.89	YES						
L0044985	0	0.54550E-07	441136.7	3760651.9	200.4	3.66	2.33
2.89	YES						
L0044986	0	0.54550E-07	441136.8	3760656.9	200.4	3.66	2.33
2.89	YES						
L0044987	0	0.54550E-07	441136.8	3760661.9	200.5	3.66	2.33
2.89	YES						
L0044988	0	0.54550E-07	441136.9	3760666.9	200.5	3.66	2.33
2.89	YES						

^ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		X	Y	(METERS)	(METERS)
(METERS)		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)
L0044989	0	0.54550E-07	441136.9	3760671.9	200.6	3.66	2.33	
2.89	YES							
L0044990	0	0.54550E-07	441136.9	3760676.9	200.6	3.66	2.33	
2.89	YES							

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L0044991	0	0.54550E-07	441137.0	3760681.9	200.7	3.66	2.33
2.89	YES						
L0044992	0	0.54550E-07	441137.0	3760686.9	200.7	3.66	2.33
2.89	YES						
L0044993	0	0.54550E-07	441137.1	3760691.9	200.8	3.66	2.33
2.89	YES						
L0044994	0	0.54550E-07	441137.1	3760696.9	200.7	3.66	2.33
2.89	YES						
L0044995	0	0.54550E-07	441137.2	3760701.9	200.7	3.66	2.33
2.89	YES						
L0044996	0	0.54550E-07	441137.2	3760706.9	200.7	3.66	2.33
2.89	YES						
L0044997	0	0.54550E-07	441137.3	3760711.9	200.7	3.66	2.33
2.89	YES						
L0044998	0	0.54550E-07	441137.3	3760716.9	200.6	3.66	2.33
2.89	YES						
L0044999	0	0.54550E-07	441137.3	3760721.9	200.6	3.66	2.33
2.89	YES						
L0045000	0	0.54550E-07	441137.4	3760726.9	200.6	3.66	2.33
2.89	YES						
L0045001	0	0.54550E-07	441137.4	3760731.9	200.6	3.66	2.33
2.89	YES						
L0045002	0	0.54550E-07	441137.5	3760736.9	200.6	3.66	2.33
2.89	YES						
L0045003	0	0.54550E-07	441137.5	3760741.9	200.6	3.66	2.33
2.89	YES						
L0045004	0	0.54550E-07	441137.6	3760746.9	200.6	3.66	2.33
2.89	YES						
L0045005	0	0.54550E-07	441137.6	3760751.9	200.6	3.66	2.33
2.89	YES						
L0045006	0	0.54550E-07	441137.6	3760756.9	200.6	3.66	2.33
2.89	YES						
L0045007	0	0.54550E-07	441137.7	3760761.9	200.6	3.66	2.33
2.89	YES						
L0045008	0	0.54550E-07	441137.7	3760766.9	200.7	3.66	2.33
2.89	YES						
L0045009	0	0.54550E-07	441137.8	3760771.9	200.7	3.66	2.33
2.89	YES						
L0045010	0	0.54550E-07	441137.8	3760776.9	200.7	3.66	2.33
2.89	YES						
L0045011	0	0.54550E-07	441137.9	3760781.9	200.7	3.66	2.33
2.89	YES						
L0045012	0	0.54550E-07	441137.9	3760786.9	200.8	3.66	2.33
2.89	YES						
L0045013	0	0.54550E-07	441138.0	3760791.9	200.8	3.66	2.33
2.89	YES						
L0045014	0	0.54550E-07	441137.9	3760796.9	200.9	3.66	2.33
2.89	YES						



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L0045015	0	0.54550E-07	441137.8	3760801.9	201.0	3.66	2.33
2.89	YES						
L0045016	0	0.54550E-07	441137.7	3760806.9	201.1	3.66	2.33
2.89	YES						
L0045017	0	0.54550E-07	441137.6	3760811.9	201.1	3.66	2.33
2.89	YES						
L0045018	0	0.54550E-07	441137.5	3760816.9	201.2	3.66	2.33
2.89	YES						
L0045019	0	0.54550E-07	441137.4	3760821.9	201.2	3.66	2.33
2.89	YES						
L0045020	0	0.54550E-07	441137.4	3760826.9	201.3	3.66	2.33
2.89	YES						
L0045021	0	0.54550E-07	441137.3	3760831.9	201.3	3.66	2.33
2.89	YES						
L0045022	0	0.54550E-07	441137.2	3760836.9	201.4	3.66	2.33
2.89	YES						
L0045023	0	0.54550E-07	441137.1	3760841.9	201.4	3.66	2.33
2.89	YES						
L0045024	0	0.54550E-07	441137.0	3760846.9	201.4	3.66	2.33
2.89	YES						
L0045025	0	0.54550E-07	441136.9	3760851.9	201.4	3.66	2.33
2.89	YES						
L0045026	0	0.54550E-07	441136.8	3760856.9	201.4	3.66	2.33
2.89	YES						
L0045027	0	0.54550E-07	441136.7	3760861.9	201.4	3.66	2.33
2.89	YES						
L0045028	0	0.54550E-07	441136.6	3760866.9	201.4	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

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L0045029	0	0.54550E-07	441136.5	3760871.9	201.4	3.66	2.33
2.89	YES						
L0045030	0	0.54550E-07	441136.4	3760876.9	201.4	3.66	2.33
2.89	YES						
L0045031	0	0.54550E-07	441136.3	3760881.9	201.5	3.66	2.33
2.89	YES						
L0045032	0	0.54550E-07	441136.2	3760886.9	201.5	3.66	2.33
2.89	YES						
L0045033	0	0.54550E-07	441136.1	3760891.9	201.5	3.66	2.33
2.89	YES						
L0045034	0	0.54550E-07	441136.0	3760896.9	201.5	3.66	2.33
2.89	YES						
L0045035	0	0.54550E-07	441136.0	3760901.9	201.5	3.66	2.33
2.89	YES						
L0045036	0	0.54550E-07	441135.9	3760906.9	201.6	3.66	2.33
2.89	YES						
L0045037	0	0.54550E-07	441135.8	3760911.9	201.6	3.66	2.33
2.89	YES						
L0045038	0	0.54550E-07	441135.7	3760916.9	201.6	3.66	2.33
2.89	YES						
L0045039	0	0.54550E-07	441135.6	3760921.9	201.6	3.66	2.33
2.89	YES						
L0045040	0	0.54550E-07	441135.6	3760926.9	201.6	3.66	2.33
2.89	YES						
L0045041	0	0.54550E-07	441135.6	3760931.9	201.6	3.66	2.33
2.89	YES						
L0045042	0	0.54550E-07	441135.5	3760936.9	201.7	3.66	2.33
2.89	YES						
L0045043	0	0.54550E-07	441135.5	3760941.9	201.7	3.66	2.33
2.89	YES						
L0045044	0	0.54550E-07	441135.4	3760946.9	201.7	3.66	2.33
2.89	YES						
L0045045	0	0.54550E-07	441135.4	3760951.9	201.8	3.66	2.33
2.89	YES						
L0045046	0	0.54550E-07	441135.3	3760956.9	201.8	3.66	2.33
2.89	YES						
L0045047	0	0.54550E-07	441135.3	3760961.9	201.8	3.66	2.33
2.89	YES						
L0045048	0	0.54550E-07	441135.2	3760966.9	201.9	3.66	2.33
2.89	YES						
L0045049	0	0.54550E-07	441135.2	3760971.9	201.9	3.66	2.33
2.89	YES						
L0045050	0	0.54550E-07	441135.1	3760976.9	201.9	3.66	2.33
2.89	YES						
L0045051	0	0.54550E-07	441135.1	3760981.9	202.0	3.66	2.33
2.89	YES						
L0045052	0	0.54550E-07	441135.0	3760986.9	202.0	3.66	2.33
2.89	YES						

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L0045053	0	0.54550E-07	441135.0	3760991.9	202.0	3.66	2.33
2.89	YES						
L0045054	0	0.54550E-07	441134.9	3760996.9	202.1	3.66	2.33
2.89	YES						
L0045055	0	0.54550E-07	441134.9	3761001.9	202.1	3.66	2.33
2.89	YES						
L0045056	0	0.54550E-07	441134.8	3761006.9	202.1	3.66	2.33
2.89	YES						
L0045057	0	0.54550E-07	441134.2	3761011.8	202.2	3.66	2.33
2.89	YES						
L0045058	0	0.54550E-07	441133.5	3761016.8	202.2	3.66	2.33
2.89	YES						
L0045059	0	0.54550E-07	441132.9	3761021.7	202.2	3.66	2.33
2.89	YES						
L0045060	0	0.54550E-07	441132.3	3761026.7	202.3	3.66	2.33
2.89	YES						
L0045061	0	0.54550E-07	441131.6	3761031.7	202.3	3.66	2.33
2.89	YES						
L0045062	0	0.54550E-07	441131.0	3761036.6	202.4	3.66	2.33
2.89	YES						
L0045063	0	0.54550E-07	441127.2	3761039.8	202.5	3.66	2.33
2.89	YES						
L0045064	0	0.54550E-07	441123.3	3761042.8	202.5	3.66	2.33
2.89	YES						
L0045065	0	0.54550E-07	441119.3	3761045.9	202.6	3.66	2.33
2.89	YES						
L0045066	0	0.54550E-07	441115.3	3761048.9	202.7	3.66	2.33
2.89	YES						
L0045067	0	0.54550E-07	441111.3	3761051.9	202.7	3.66	2.33
2.89	YES						
L0045068	0	0.54550E-07	441107.4	3761055.0	202.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	RATE			ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)	(METERS)

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(METERS)

BY

L0045069	0	0.54550E-07	441103.4	3761058.0	202.8	3.66	2.33
2.89 YES							
L0045070	0	0.54550E-07	441098.9	3761059.8	202.9	3.66	2.33
2.89 YES							
L0045071	0	0.54550E-07	441094.0	3761060.4	202.9	3.66	2.33
2.89 YES							
L0045072	0	0.54550E-07	441089.0	3761061.0	202.9	3.66	2.33
2.89 YES							
L0045073	0	0.54550E-07	441084.0	3761061.5	202.9	3.66	2.33
2.89 YES							
L0045074	0	0.54550E-07	441079.1	3761062.1	202.9	3.66	2.33
2.89 YES							
L0045075	0	0.54550E-07	441074.1	3761062.7	202.9	3.66	2.33
2.89 YES							
L0045076	0	0.54550E-07	441069.1	3761063.2	202.8	3.66	2.33
2.89 YES							
L0045077	0	0.54550E-07	441064.1	3761063.5	202.7	3.66	2.33
2.89 YES							
L0045078	0	0.54550E-07	441059.1	3761063.6	202.7	3.66	2.33
2.89 YES							
L0045079	0	0.54550E-07	441054.1	3761063.6	202.6	3.66	2.33
2.89 YES							
L0045080	0	0.54550E-07	441049.1	3761063.7	202.5	3.66	2.33
2.89 YES							
L0045081	0	0.54550E-07	441044.1	3761063.7	202.5	3.66	2.33
2.89 YES							
L0045082	0	0.54550E-07	441039.1	3761063.8	202.4	3.66	2.33
2.89 YES							
L0045083	0	0.54550E-07	441034.1	3761063.9	202.3	3.66	2.33
2.89 YES							
L0045084	0	0.54550E-07	441029.1	3761063.9	202.2	3.66	2.33
2.89 YES							
L0045085	0	0.54550E-07	441024.1	3761064.0	202.3	3.66	2.33
2.89 YES							
L0045086	0	0.54550E-07	441019.1	3761064.0	202.3	3.66	2.33
2.89 YES							
L0045087	0	0.54550E-07	441014.1	3761064.1	202.3	3.66	2.33
2.89 YES							
L0045088	0	0.54550E-07	441009.1	3761064.1	202.3	3.66	2.33
2.89 YES							
L0045089	0	0.54550E-07	441004.1	3761064.2	202.3	3.66	2.33
2.89 YES							
L0045090	0	0.54550E-07	440999.1	3761064.2	202.4	3.66	2.33
2.89 YES							

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L0045091	0	0.54550E-07	440994.1	3761064.3	202.5	3.66	2.33
2.89	YES						
L0045092	0	0.54550E-07	440989.1	3761064.4	202.7	3.66	2.33
2.89	YES						
L0045093	0	0.54690E-07	440985.5	3761064.3	202.8	3.66	2.33
2.89	YES						
L0045094	0	0.54690E-07	440980.5	3761064.0	202.9	3.66	2.33
2.89	YES						
L0045095	0	0.54690E-07	440975.5	3761063.8	203.0	3.66	2.33
2.89	YES						
L0045096	0	0.54690E-07	440970.5	3761063.5	203.1	3.66	2.33
2.89	YES						
L0045097	0	0.54690E-07	440965.5	3761063.3	203.2	3.66	2.33
2.89	YES						
L0045098	0	0.54690E-07	440960.6	3761063.0	203.2	3.66	2.33
2.89	YES						
L0045099	0	0.54690E-07	440955.6	3761062.7	203.3	3.66	2.33
2.89	YES						
L0045100	0	0.54690E-07	440950.6	3761062.5	203.4	3.66	2.33
2.89	YES						
L0045101	0	0.54690E-07	440945.6	3761062.2	203.4	3.66	2.33
2.89	YES						
L0045102	0	0.54690E-07	440940.6	3761062.0	203.4	3.66	2.33
2.89	YES						
L0045103	0	0.54690E-07	440935.6	3761061.7	203.4	3.66	2.33
2.89	YES						
L0045104	0	0.54690E-07	440930.6	3761061.4	203.4	3.66	2.33
2.89	YES						
L0045105	0	0.54690E-07	440925.6	3761061.2	203.4	3.66	2.33
2.89	YES						
L0045106	0	0.54690E-07	440920.6	3761060.9	203.2	3.66	2.33
2.89	YES						
L0045107	0	0.54690E-07	440915.6	3761060.7	203.1	3.66	2.33
2.89	YES						
L0045108	0	0.54690E-07	440910.6	3761060.4	203.0	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.
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SOL\_operations\_rev2.ADO

INIT.	URBAN	EMISSION RATE						
SOURCE		PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	
SZ	SOURCE	SCALAR VARY						
ID		CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						
L0045109		0	0.54690E-07	440905.6	3761060.2	202.9	3.66	2.33
2.89	YES							
L0045110		0	0.54690E-07	440900.6	3761060.0	202.8	3.66	2.33
2.89	YES							
L0045111		0	0.54690E-07	440895.6	3761059.7	202.6	3.66	2.33
2.89	YES							
L0045112		0	0.54690E-07	440890.6	3761059.5	202.4	3.66	2.33
2.89	YES							
L0045113		0	0.54690E-07	440885.7	3761059.3	202.3	3.66	2.33
2.89	YES							
L0045114		0	0.54690E-07	440880.7	3761058.6	202.1	3.66	2.33
2.89	YES							
L0045115		0	0.54690E-07	440876.0	3761056.9	201.9	3.66	2.33
2.89	YES							
L0045116		0	0.54690E-07	440871.3	3761055.2	201.9	3.66	2.33
2.89	YES							
L0045117		0	0.54690E-07	440866.6	3761053.5	201.8	3.66	2.33
2.89	YES							
L0045118		0	0.54690E-07	440861.9	3761051.9	201.8	3.66	2.33
2.89	YES							
L0045119		0	0.54690E-07	440857.2	3761050.2	201.7	3.66	2.33
2.89	YES							
L0045120		0	0.54690E-07	440853.9	3761046.5	201.6	3.66	2.33
2.89	YES							
L0045121		0	0.54690E-07	440851.0	3761042.5	201.5	3.66	2.33
2.89	YES							
L0045122		0	0.54690E-07	440848.0	3761038.5	201.5	3.66	2.33
2.89	YES							
L0045123		0	0.54690E-07	440845.1	3761034.5	201.4	3.66	2.33
2.89	YES							
L0045124		0	0.54690E-07	440842.1	3761030.4	201.3	3.66	2.33
2.89	YES							
L0045125		0	0.54690E-07	440839.2	3761026.4	201.2	3.66	2.33
2.89	YES							
L0045126		0	0.54690E-07	440836.2	3761022.4	201.1	3.66	2.33
2.89	YES							
L0045127		0	0.54690E-07	440835.6	3761017.4	201.1	3.66	2.33
2.89	YES							
L0045128		0	0.54690E-07	440834.9	3761012.4	201.0	3.66	2.33
2.89	YES							

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L0045129	0	0.54690E-07	440834.3	3761007.5	200.9	3.66	2.33
2.89	YES						
L0045130	0	0.54690E-07	440833.6	3761002.5	200.8	3.66	2.33
2.89	YES						
L0045131	0	0.54690E-07	440833.0	3760997.6	200.8	3.66	2.33
2.89	YES						
L0045132	0	0.54690E-07	440832.4	3760992.6	200.8	3.66	2.33
2.89	YES						
L0045133	0	0.54690E-07	440831.7	3760987.6	200.7	3.66	2.33
2.89	YES						
L0045134	0	0.54690E-07	440831.1	3760982.7	200.7	3.66	2.33
2.89	YES						
L0045135	0	0.54690E-07	440830.4	3760977.7	200.6	3.66	2.33
2.89	YES						
L0045136	0	0.54690E-07	440829.8	3760972.8	200.6	3.66	2.33
2.89	YES						
L0045137	0	0.54690E-07	440829.2	3760967.8	200.6	3.66	2.33
2.89	YES						
L0045138	0	0.54690E-07	440828.5	3760962.8	200.5	3.66	2.33
2.89	YES						
L0045139	0	0.54690E-07	440827.9	3760957.9	200.5	3.66	2.33
2.89	YES						
L0045140	0	0.54690E-07	440827.2	3760952.9	200.5	3.66	2.33
2.89	YES						
L0045141	0	0.54690E-07	440826.6	3760948.0	200.4	3.66	2.33
2.89	YES						
L0045142	0	0.54690E-07	440826.0	3760943.0	200.4	3.66	2.33
2.89	YES						
L0045143	0	0.54690E-07	440825.3	3760938.1	200.4	3.66	2.33
2.89	YES						
L0045144	0	0.54690E-07	440825.1	3760933.1	200.3	3.66	2.33
2.89	YES						
L0045145	0	0.54690E-07	440825.0	3760928.1	200.3	3.66	2.33
2.89	YES						
L0045146	0	0.54690E-07	440824.9	3760923.1	200.2	3.66	2.33
2.89	YES						
L0045147	0	0.54690E-07	440824.8	3760918.1	200.2	3.66	2.33
2.89	YES						
L0045148	0	0.54690E-07	440824.7	3760913.1	200.1	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0045149		0	0.54690E-07	440824.6	3760908.1	200.1	3.66	2.33
2.89	YES							
L0045150		0	0.54690E-07	440824.5	3760903.1	200.1	3.66	2.33
2.89	YES							
L0045151		0	0.54690E-07	440824.4	3760898.1	200.0	3.66	2.33
2.89	YES							
L0045152		0	0.54690E-07	440824.3	3760893.1	200.0	3.66	2.33
2.89	YES							
L0045153		0	0.54690E-07	440824.2	3760888.1	199.9	3.66	2.33
2.89	YES							
L0045154		0	0.54690E-07	440824.1	3760883.1	199.9	3.66	2.33
2.89	YES							
L0045155		0	0.54690E-07	440823.9	3760878.1	199.9	3.66	2.33
2.89	YES							
L0045156		0	0.54690E-07	440823.8	3760873.1	199.8	3.66	2.33
2.89	YES							
L0045157		0	0.54690E-07	440823.7	3760868.1	199.8	3.66	2.33
2.89	YES							
L0045158		0	0.54690E-07	440823.6	3760863.1	199.8	3.66	2.33
2.89	YES							
L0045159		0	0.54690E-07	440823.5	3760858.1	199.8	3.66	2.33
2.89	YES							
L0045160		0	0.54690E-07	440823.4	3760853.1	199.8	3.66	2.33
2.89	YES							
L0045161		0	0.54690E-07	440823.3	3760848.1	199.8	3.66	2.33
2.89	YES							
L0045162		0	0.54690E-07	440823.2	3760843.1	199.7	3.66	2.33
2.89	YES							
L0045163		0	0.54690E-07	440823.1	3760838.1	199.7	3.66	2.33
2.89	YES							
L0045164		0	0.54690E-07	440823.0	3760833.1	199.7	3.66	2.33
2.89	YES							
L0045165		0	0.54690E-07	440822.9	3760828.1	199.6	3.66	2.33
2.89	YES							
L0045166		0	0.54690E-07	440822.8	3760823.1	199.6	3.66	2.33
2.89	YES							



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L0045167	0	0.54690E-07	440822.7	3760818.1	199.6	3.66	2.33
2.89	YES						
L0045168	0	0.54690E-07	440822.6	3760813.1	199.6	3.66	2.33
2.89	YES						
L0045169	0	0.54690E-07	440822.5	3760808.1	199.5	3.66	2.33
2.89	YES						
L0045170	0	0.54690E-07	440822.5	3760803.1	199.5	3.66	2.33
2.89	YES						
L0045171	0	0.54690E-07	440822.5	3760798.1	199.5	3.66	2.33
2.89	YES						
L0045172	0	0.54690E-07	440822.6	3760793.1	199.4	3.66	2.33
2.89	YES						
L0045173	0	0.54690E-07	440822.6	3760788.1	199.4	3.66	2.33
2.89	YES						
L0045174	0	0.54690E-07	440822.6	3760783.1	199.4	3.66	2.33
2.89	YES						
L0045175	0	0.54690E-07	440822.7	3760778.1	199.3	3.66	2.33
2.89	YES						
L0045176	0	0.54690E-07	440822.7	3760773.1	199.3	3.66	2.33
2.89	YES						
L0045177	0	0.54690E-07	440822.8	3760768.1	199.3	3.66	2.33
2.89	YES						
L0045178	0	0.54690E-07	440822.8	3760763.1	199.2	3.66	2.33
2.89	YES						
L0045179	0	0.54690E-07	440822.9	3760758.1	199.2	3.66	2.33
2.89	YES						
L0045180	0	0.54690E-07	440822.9	3760753.1	199.1	3.66	2.33
2.89	YES						
L0045181	0	0.54690E-07	440823.0	3760748.1	199.1	3.66	2.33
2.89	YES						
L0045182	0	0.54690E-07	440823.0	3760743.1	199.1	3.66	2.33
2.89	YES						
L0045183	0	0.54690E-07	440823.0	3760738.1	199.0	3.66	2.33
2.89	YES						
L0045184	0	0.54690E-07	440823.1	3760733.1	199.0	3.66	2.33
2.89	YES						
L0045185	0	0.54690E-07	440823.1	3760728.1	198.9	3.66	2.33
2.89	YES						
L0045186	0	0.54690E-07	440823.2	3760723.1	198.9	3.66	2.33
2.89	YES						
L0045187	0	0.54690E-07	440823.2	3760718.1	198.9	3.66	2.33
2.89	YES						
L0045188	0	0.54690E-07	440823.3	3760713.1	198.8	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0045189		0	0.54690E-07	440823.3	3760708.1	198.8	3.66	2.33
2.89	YES							
L0045190		0	0.54690E-07	440823.3	3760703.1	198.7	3.66	2.33
2.89	YES							
L0045191		0	0.54690E-07	440823.4	3760698.1	198.7	3.66	2.33
2.89	YES							
L0045192		0	0.54690E-07	440823.4	3760693.1	198.7	3.66	2.33
2.89	YES							
L0045193		0	0.54690E-07	440823.5	3760688.1	198.6	3.66	2.33
2.89	YES							
L0045194		0	0.54690E-07	440823.5	3760683.1	198.6	3.66	2.33
2.89	YES							
L0045195		0	0.54690E-07	440823.6	3760678.1	198.5	3.66	2.33
2.89	YES							
L0045196		0	0.54690E-07	440823.6	3760673.1	198.5	3.66	2.33
2.89	YES							
L0045197		0	0.54690E-07	440823.7	3760668.1	198.4	3.66	2.33
2.89	YES							
L0045198		0	0.54690E-07	440823.7	3760663.1	198.4	3.66	2.33
2.89	YES							
L0045199		0	0.54690E-07	440823.7	3760658.1	198.4	3.66	2.33
2.89	YES							
L0045200		0	0.54690E-07	440823.8	3760653.1	198.3	3.66	2.33
2.89	YES							
L0045201		0	0.54690E-07	440823.8	3760648.1	198.3	3.66	2.33
2.89	YES							
L0045202		0	0.54690E-07	440823.9	3760643.1	198.2	3.66	2.33
2.89	YES							
L0045203		0	0.54690E-07	440823.9	3760638.1	198.2	3.66	2.33
2.89	YES							
L0045204		0	0.54690E-07	440824.0	3760633.1	198.1	3.66	2.33
2.89	YES							

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L0045205	0	0.54690E-07	440824.0	3760628.1	198.1	3.66	2.33
2.89	YES						
L0045206	0	0.54690E-07	440824.0	3760623.1	198.0	3.66	2.33
2.89	YES						
L0045207	0	0.54690E-07	440824.1	3760618.1	198.0	3.66	2.33
2.89	YES						
L0045208	0	0.54690E-07	440824.1	3760613.1	197.9	3.66	2.33
2.89	YES						
L0045209	0	0.54690E-07	440824.2	3760608.1	197.9	3.66	2.33
2.89	YES						
L0045210	0	0.54690E-07	440824.2	3760603.1	197.8	3.66	2.33
2.89	YES						
L0045211	0	0.54690E-07	440824.3	3760598.1	197.7	3.66	2.33
2.89	YES						
L0045212	0	0.54690E-07	440826.0	3760593.5	197.7	3.66	2.33
2.89	YES						
L0045213	0	0.54690E-07	440828.1	3760588.9	197.7	3.66	2.33
2.89	YES						
L0045214	0	0.54690E-07	440830.2	3760584.4	197.6	3.66	2.33
2.89	YES						
L0045215	0	0.54690E-07	440832.3	3760579.8	197.6	3.66	2.33
2.89	YES						
L0045216	0	0.54690E-07	440834.3	3760575.3	197.5	3.66	2.33
2.89	YES						
L0045217	0	0.54690E-07	440836.4	3760570.7	197.5	3.66	2.33
2.89	YES						
L0045218	0	0.54690E-07	440838.5	3760566.2	197.4	3.66	2.33
2.89	YES						
L0045219	0	0.54690E-07	440840.6	3760561.6	197.4	3.66	2.33
2.89	YES						
L0045220	0	0.54690E-07	440842.7	3760557.1	197.4	3.66	2.33
2.89	YES						
L0045221	0	0.54690E-07	440845.1	3760552.8	197.4	3.66	2.33
2.89	YES						
L0045222	0	0.54690E-07	440848.8	3760549.5	197.4	3.66	2.33
2.89	YES						
L0045223	0	0.54690E-07	440852.5	3760546.1	197.4	3.66	2.33
2.89	YES						
L0045224	0	0.54690E-07	440856.2	3760542.8	197.4	3.66	2.33
2.89	YES						
L0045225	0	0.54690E-07	440859.9	3760539.4	197.5	3.66	2.33
2.89	YES						
L0045226	0	0.54690E-07	440863.7	3760536.1	197.5	3.66	2.33
2.89	YES						
L0045227	0	0.54690E-07	440867.4	3760532.7	197.5	3.66	2.33
2.89	YES						
L0045228	0	0.54690E-07	440871.1	3760529.4	197.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0045229		0	0.54690E-07	440874.8	3760526.0	197.6	3.66	2.33
2.89	YES							
L0045230		0	0.54690E-07	440878.5	3760522.7	197.6	3.66	2.33
2.89	YES							
L0045231		0	0.54690E-07	440882.8	3760520.5	197.7	3.66	2.33
2.89	YES							
L0045232		0	0.54690E-07	440887.7	3760519.5	197.7	3.66	2.33
2.89	YES							
L0045233		0	0.54690E-07	440892.6	3760518.4	197.8	3.66	2.33
2.89	YES							
L0045234		0	0.54690E-07	440897.5	3760517.3	197.9	3.66	2.33
2.89	YES							
L0045235		0	0.54690E-07	440902.4	3760516.3	197.9	3.66	2.33
2.89	YES							
L0045236		0	0.54690E-07	440907.3	3760515.2	197.9	3.66	2.33
2.89	YES							
L0045237		0	0.54690E-07	440912.1	3760514.1	197.9	3.66	2.33
2.89	YES							
L0045238		0	0.54690E-07	440917.0	3760513.0	198.0	3.66	2.33
2.89	YES							
L0045239		0	0.54690E-07	440922.0	3760512.6	198.0	3.66	2.33
2.89	YES							
L0045240		0	0.54690E-07	440927.0	3760512.3	198.0	3.66	2.33
2.89	YES							
L0045241		0	0.54690E-07	440932.0	3760512.0	198.0	3.66	2.33
2.89	YES							
L0045242		0	0.54690E-07	440937.0	3760511.7	198.0	3.66	2.33
2.89	YES							

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L0045243	0	0.54690E-07	440942.0	3760511.4	198.0	3.66	2.33
2.89	YES						
L0045244	0	0.54690E-07	440947.0	3760511.1	198.0	3.66	2.33
2.89	YES						
L0045245	0	0.54690E-07	440951.9	3760510.8	198.0	3.66	2.33
2.89	YES						
L0045246	0	0.54690E-07	440956.9	3760510.5	198.1	3.66	2.33
2.89	YES						
L0045247	0	0.54690E-07	440961.9	3760510.2	198.1	3.66	2.33
2.89	YES						
L0045248	0	0.54690E-07	440966.9	3760510.0	198.2	3.66	2.33
2.89	YES						
L0045249	0	0.54690E-07	440971.9	3760509.9	198.2	3.66	2.33
2.89	YES						
L0045250	0	0.54690E-07	440976.9	3760509.8	198.3	3.66	2.33
2.89	YES						
L0045251	0	0.54690E-07	440981.9	3760509.7	198.4	3.66	2.33
2.89	YES						
L0045252	0	0.54690E-07	440986.9	3760509.6	198.6	3.66	2.33
2.89	YES						

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs									
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ALL	L0040784	,	L0040785	,	L0040786	,	L0040787	,	L0040788	,
L0040789	,	L0040790	,	L0040791	,					
	L0040792	,	L0040793	,	L0040794	,	L0040795	,	L0040796	,
L0040797	,	L0040798	,	L0040799	,					
	L0040800	,	L0040801	,	L0040802	,	L0040803	,	L0040804	,
L0040805	,	L0040806	,	L0040807	,					
	L0040808	,	L0040809	,	L0040810	,	L0040811	,	L0040812	,
L0040813	,	L0040814	,	L0040815	,					

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L0040821      L0040816      , L0040817      , L0040818      , L0040819      , L0040820      ,  
                  , L0040822      , L0040823      ,

L0040829      L0040824      , L0040825      , L0040826      , L0040827      , L0040828      ,  
                  , L0040830      , L0040831      ,

L0040837      L0040832      , L0040833      , L0040834      , L0040835      , L0040836      ,  
                  , L0040838      , L0040839      ,

L0040845      L0040840      , L0040841      , L0040842      , L0040843      , L0040844      ,  
                  , L0040846      , L0040847      ,

L0040853      L0040848      , L0040849      , L0040850      , L0040851      , L0040852      ,  
                  , L0040854      , L0040855      ,

L0040861      L0040856      , L0040857      , L0040858      , L0040859      , L0040860      ,  
                  , L0040862      , L0040863      ,

L0040869      L0040864      , L0040865      , L0040866      , L0040867      , L0040868      ,  
                  , L0040870      , L0040871      ,

L0040877      L0040872      , L0040873      , L0040874      , L0040875      , L0040876      ,  
                  , L0040878      , L0040879      ,

L0040885      L0040880      , L0040881      , L0040882      , L0040883      , L0040884      ,  
                  , L0040886      , L0040887      ,

L0040893      L0040888      , L0040889      , L0040890      , L0040891      , L0040892      ,  
                  , L0040894      , L0040895      ,

L0040901      L0040896      , L0040897      , L0040898      , L0040899      , L0040900      ,  
                  , L0040902      , L0040903      ,

L0040909      L0040904      , L0040905      , L0040906      , L0040907      , L0040908      ,  
                  , L0040910      , L0040911      ,

L0040917      L0040912      , L0040913      , L0040914      , L0040915      , L0040916      ,  
                  , L0040918      , L0040919      ,

L0040925      L0040920      , L0040921      , L0040922      , L0040923      , L0040924      ,  
                  , L0040926      , L0040927      ,

L0040933      L0040928      , L0040929      , L0040930      , L0040931      , L0040932      ,  
                  , L0040934      , L0040935      ,

L0040941      L0040936      , L0040937      , L0040938      , L0040939      , L0040940      ,  
                  , L0040942      , L0040943      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:50:42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID -----	SOURCE IDs -----					
L0040949	L0040944 , L0040950	L0040945 , L0040951	L0040946 ,	L0040947 ,	L0040948 ,	
L0040957	L0040952 , L0040958	L0040953 , L0040959	L0040954 ,	L0040955 ,	L0040956 ,	
L0040965	L0040960 , L0040966	L0040961 , L0040967	L0040962 ,	L0040963 ,	L0040964 ,	
L0040973	L0040968 , L0040974	L0040969 , L0040975	L0040970 ,	L0040971 ,	L0040972 ,	
L0040981	L0040976 , L0040982	L0040977 , L0040983	L0040978 ,	L0040979 ,	L0040980 ,	
L0040989	L0040984 , L0040990	L0040985 , L0040991	L0040986 ,	L0040987 ,	L0040988 ,	
L0040997	L0040992 , L0040998	L0040993 , L0040999	L0040994 ,	L0040995 ,	L0040996 ,	
L0041005	L0041000 , L0041006	L0041001 , L0041007	L0041002 ,	L0041003 ,	L0041004 ,	
L0041013	L0041008 , L0041014	L0041009 , L0041015	L0041010 ,	L0041011 ,	L0041012 ,	
L0041021	L0041016 , L0041022	L0041017 , L0041023	L0041018 ,	L0041019 ,	L0041020 ,	
L0041029	L0041024 , L0041030	L0041025 , L0041031	L0041026 ,	L0041027 ,	L0041028 ,	

SOL\_operations\_rev2.ADO

L0041037      L0041032      , L0041033      , L0041034      , L0041035      , L0041036      ,  
                  , L0041038      , L0041039      ,  
  
 L0041045      L0041040      , L0041041      , L0041042      , L0041043      , L0041044      ,  
                  , L0041046      , L0041047      ,  
  
 L0041053      L0041048      , L0041049      , L0041050      , L0041051      , L0041052      ,  
                  , L0041054      , L0041055      ,  
  
 L0041061      L0041056      , L0041057      , L0041058      , L0041059      , L0041060      ,  
                  , L0041062      , L0041063      ,  
  
 L0041069      L0041064      , L0041065      , L0041066      , L0041067      , L0041068      ,  
                  , L0041070      , L0041071      ,  
  
 L0041077      L0041072      , L0041073      , L0041074      , L0041075      , L0041076      ,  
                  , L0041078      , L0041079      ,  
  
 L0041085      L0041080      , L0041081      , L0041082      , L0041083      , L0041084      ,  
                  , L0041086      , L0041087      ,  
  
 L0041093      L0041088      , L0041089      , L0041090      , L0041091      , L0041092      ,  
                  , L0041094      , L0041095      ,  
  
 L0041101      L0041096      , L0041097      , L0041098      , L0041099      , L0041100      ,  
                  , L0041102      , L0041103      ,  
 ▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0041109	L0041104      , L0041105      , L0041106      , L0041107      , L0041108      , , L0041110      , L0041111      ,
L0041117	L0041112      , L0041113      , L0041114      , L0041115      , L0041116      , , L0041118      , L0041119      ,



SOL\_operations\_rev2.ADO

L0041125      L0041120 , L0041121 , L0041122 , L0041123 , L0041124 ,  
                  , L0041126 , L0041127 ,

L0041133      L0041128 , L0041129 , L0041130 , L0041131 , L0041132 ,  
                  , L0041134 , L0041135 ,

L0041141      L0041136 , L0041137 , L0041138 , L0041139 , L0041140 ,  
                  , L0041142 , L0041143 ,

L0041149      L0041144 , L0041145 , L0041146 , L0041147 , L0041148 ,  
                  , L0041150 , L0041151 ,

L0041157      L0041152 , L0041153 , L0041154 , L0041155 , L0041156 ,  
                  , L0041158 , L0041159 ,

L0041165      L0041160 , L0041161 , L0041162 , L0041163 , L0041164 ,  
                  , L0041166 , L0041167 ,

L0041173      L0041168 , L0041169 , L0041170 , L0041171 , L0041172 ,  
                  , L0041174 , L0041175 ,

L0041181      L0041176 , L0041177 , L0041178 , L0041179 , L0041180 ,  
                  , L0041182 , L0041183 ,

L0041189      L0041184 , L0041185 , L0041186 , L0041187 , L0041188 ,  
                  , L0041190 , L0041191 ,

L0041197      L0041192 , L0041193 , L0041194 , L0041195 , L0041196 ,  
                  , L0041198 , L0041199 ,

L0041205      L0041200 , L0041201 , L0041202 , L0041203 , L0041204 ,  
                  , L0041206 , L0041207 ,

L0041213      L0041208 , L0041209 , L0041210 , L0041211 , L0041212 ,  
                  , L0041214 , L0041215 ,

L0041221      L0041216 , L0041217 , L0041218 , L0041219 , L0041220 ,  
                  , L0041222 , L0041223 ,

L0041229      L0041224 , L0041225 , L0041226 , L0041227 , L0041228 ,  
                  , L0041230 , L0041231 ,

L0041237      L0041232 , L0041233 , L0041234 , L0041235 , L0041236 ,  
                  , L0041238 , L0041239 ,

L0041245      L0041240 , L0041241 , L0041242 , L0041243 , L0041244 ,  
                  , L0041246 , L0041247 ,

SOL\_operations\_rev2.ADO

L0041248 , L0041249 , L0041250 , L0041251 , L0041252 ,  
L0041253 , L0041254 , L0041255 ,

L0041256 , L0041257 , L0041258 , L0041259 , L0041260 ,  
L0041261 , L0041262 , L0041263 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
-----	-----
L0041269	L0041264 , L0041265 , L0041266 , L0041267 , L0041268 , L0041269 , L0041270 , L0041271 ,
L0041277	L0041272 , L0041273 , L0041274 , L0041275 , L0041276 , L0041277 , L0041278 , L0041279 ,
L0041285	L0041280 , L0041281 , L0041282 , L0041283 , L0041284 , L0041285 , L0041286 , L0041287 ,
L0041293	L0041288 , L0041289 , L0041290 , L0041291 , L0041292 , L0041293 , L0041294 , L0041295 ,
L0041301	L0041296 , L0041297 , L0041298 , L0041299 , L0041300 , L0041301 , L0041302 , L0041303 ,
L0041309	L0041304 , L0041305 , L0041306 , L0041307 , L0041308 , L0041309 , L0041310 , L0041311 ,
L0041317	L0041312 , L0041313 , L0041314 , L0041315 , L0041316 , L0041317 , L0041318 , L0041319 ,
L0041325	L0041320 , L0041321 , L0041322 , L0041323 , L0041324 , L0041325 , L0041326 , L0041327 ,
L0041333	L0041328 , L0041329 , L0041330 , L0041331 , L0041332 , L0041333 , L0041334 , L0041335 ,

SOL\_operations\_rev2.ADO

L0041341 , L0041336 , L0041337 , L0041338 , L0041339 , L0041340 ,  
 , L0041342 , L0041343 , ,  
 L0041349 , L0041344 , L0041345 , L0041346 , L0041347 , L0041348 ,  
 , L0041350 , L0041351 , ,  
 L0041357 , L0041352 , L0041353 , L0041354 , L0041355 , L0041356 ,  
 , L0041358 , L0041359 , ,  
 L0041365 , L0041360 , L0041361 , L0041362 , L0041363 , L0041364 ,  
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 L0041373 , L0041368 , L0041369 , L0041370 , L0041371 , L0041372 ,  
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 , L0041406 , L0041407 , ,  
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 , L0041414 , L0041415 , ,  
 L0041421 , L0041416 , L0041417 , L0041418 , L0041419 , L0041420 ,  
 , L0041422 , L0041423 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
 -----

SOURCE IDs  
 -----

SOL\_operations\_rev2.ADO

L0041429      L0041424 , L0041425 , L0041426 , L0041427 , L0041428 ,  
                  , L0041430 , L0041431 ,

L0041437      L0041432 , L0041433 , L0041434 , L0041435 , L0041436 ,  
                  , L0041438 , L0041439 ,

L0041445      L0041440 , L0041441 , L0041442 , L0041443 , L0041444 ,  
                  , L0041446 , L0041447 ,

L0041453      L0041448 , L0041449 , L0041450 , L0041451 , L0041452 ,  
                  , L0041454 , L0041455 ,

L0041461      L0041456 , L0041457 , L0041458 , L0041459 , L0041460 ,  
                  , L0041462 , L0041463 ,

L0041469      L0041464 , L0041465 , L0041466 , L0041467 , L0041468 ,  
                  , L0041470 , L0041471 ,

L0041477      L0041472 , L0041473 , L0041474 , L0041475 , L0041476 ,  
                  , L0041478 , L0041479 ,

L0041485      L0041480 , L0041481 , L0041482 , L0041483 , L0041484 ,  
                  , L0041486 , L0041487 ,

L0041493      L0041488 , L0041489 , L0041490 , L0041491 , L0041492 ,  
                  , L0041494 , L0041495 ,

L0041501      L0041496 , L0041497 , L0041498 , L0041499 , L0041500 ,  
                  , L0041502 , L0041503 ,

L0041509      L0041504 , L0041505 , L0041506 , L0041507 , L0041508 ,  
                  , L0041510 , L0041511 ,

L0041517      L0041512 , L0041513 , L0041514 , L0041515 , L0041516 ,  
                  , L0041518 , L0041519 ,

L0041525      L0041520 , L0041521 , L0041522 , L0041523 , L0041524 ,  
                  , L0041526 , L0041527 ,

L0041533      L0041528 , L0041529 , L0041530 , L0041531 , L0041532 ,  
                  , L0041534 , L0041535 ,

L0041541      L0041536 , L0041537 , L0041538 , L0041539 , L0041540 ,  
                  , L0041542 , L0041543 ,

L0041549      L0041544 , L0041545 , L0041546 , L0041547 , L0041548 ,  
                  , L0041550 , L0041551 ,

SOL\_operations\_rev2.ADO

L0041557 L0041552 , L0041553 , L0041554 , L0041555 , L0041556 ,  
, L0041558 , L0041559 ,

L0041565 L0041560 , L0041561 , L0041562 , L0041563 , L0041564 ,  
, L0041566 , L0041567 ,

L0041573 L0041568 , L0041569 , L0041570 , L0041571 , L0041572 ,  
, L0041574 , L0041575 ,

L0041581 L0041576 , L0041577 , L0041578 , L0041579 , L0041580 ,  
, L0041582 , L0041583 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

L0041589 L0041584 , L0041585 , L0041586 , L0041587 , L0041588 ,  
, L0041590 , L0041591 ,

L0041597 L0041592 , L0041593 , L0041594 , L0041595 , L0041596 ,  
, L0041598 , L0041599 ,

L0041605 L0041600 , L0041601 , L0041602 , L0041603 , L0041604 ,  
, L0041606 , L0041607 ,

L0041613 L0041608 , L0041609 , L0041610 , L0041611 , L0041612 ,  
, L0041614 , L0041615 ,

L0041621 L0041616 , L0041617 , L0041618 , L0041619 , L0041620 ,  
, L0041622 , L0041623 ,

L0041629 L0041624 , L0041625 , L0041626 , L0041627 , L0041628 ,  
, L0041630 , L0041631 ,

L0041637 L0041632 , L0041633 , L0041634 , L0041635 , L0041636 ,  
, L0041638 , L0041639 ,

SOL\_operations\_rev2.ADO

L0041645      L0041640      , L0041641      , L0041642      , L0041643      , L0041644      ,  
                  , L0041646      , L0041647      ,  
  
 L0041653      L0041648      , L0041649      , L0041650      , L0041651      , L0041652      ,  
                  , L0041654      , L0041655      ,  
  
 L0041661      L0041656      , L0041657      , L0041658      , L0041659      , L0041660      ,  
                  , L0041662      , L0041663      ,  
  
 L0041669      L0041664      , L0041665      , L0041666      , L0041667      , L0041668      ,  
                  , L0041670      , L0041671      ,  
  
 L0041677      L0041672      , L0041673      , L0041674      , L0041675      , L0041676      ,  
                  , L0041678      , L0041679      ,  
  
 L0041685      L0041680      , L0041681      , L0041682      , L0041683      , L0041684      ,  
                  , L0041686      , L0041687      ,  
  
 L0041693      L0041688      , L0041689      , L0041690      , L0041691      , L0041692      ,  
                  , L0041694      , L0041695      ,  
  
 L0041701      L0041696      , L0041697      , L0041698      , L0041699      , L0041700      ,  
                  , L0041702      , L0041703      ,  
  
 L0041709      L0041704      , L0041705      , L0041706      , L0041707      , L0041708      ,  
                  , L0041710      , L0041711      ,  
  
 L0041717      L0041712      , L0041713      , L0041714      , L0041715      , L0041716      ,  
                  , L0041718      , L0041719      ,  
  
 L0041725      L0041720      , L0041721      , L0041722      , L0041723      , L0041724      ,  
                  , L0041726      , L0041727      ,  
  
 L0041733      L0041728      , L0041729      , L0041730      , L0041731      , L0041732      ,  
                  , L0041734      , L0041735      ,  
  
 L0041741      L0041736      , L0041737      , L0041738      , L0041739      , L0041740      ,  
                  , L0041742      , L0041743      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                  \*\*\*      17:50:42

\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

SOL\_operations\_rev2.ADO

\*\*\*

SRCGROUP ID -----	SOURCE IDs -----					
L0041749	L0041744 , L0041750	, L0041745 , L0041751	, L0041746 ,	, L0041747	, L0041748	,
L0041757	L0041752 , L0041758	, L0041753 , L0041759	, L0041754 ,	, L0041755	, L0041756	,
L0041765	L0041760 , L0041766	, L0041761 , L0041767	, L0041762 ,	, L0041763	, L0041764	,
L0041773	L0041768 , L0041774	, L0041769 , L0041775	, L0041770 ,	, L0041771	, L0041772	,
L0041781	L0041776 , L0041782	, L0041777 , L0041783	, L0041778 ,	, L0041779	, L0041780	,
L0041789	L0041784 , L0041790	, L0041785 , L0041791	, L0041786 ,	, L0041787	, L0041788	,
L0041797	L0041792 , L0041798	, L0041793 , L0041799	, L0041794 ,	, L0041795	, L0041796	,
L0041805	L0041800 , L0041806	, L0041801 , L0041807	, L0041802 ,	, L0041803	, L0041804	,
L0041813	L0041808 , L0041814	, L0041809 , L0041815	, L0041810 ,	, L0041811	, L0041812	,
L0041821	L0041816 , L0041822	, L0041817 , L0041823	, L0041818 ,	, L0041819	, L0041820	,
L0041829	L0041824 , L0041830	, L0041825 , L0041831	, L0041826 ,	, L0041827	, L0041828	,
L0041837	L0041832 , L0041838	, L0041833 , L0041839	, L0041834 ,	, L0041835	, L0041836	,
L0041845	L0041840 , L0041846	, L0041841 , L0041847	, L0041842 ,	, L0041843	, L0041844	,
L0041853	L0041848 , L0041854	, L0041849 , L0041855	, L0041850 ,	, L0041851	, L0041852	,

SOL\_operations\_rev2.ADO

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L0041861      L0041856      , L0041857      , L0041858      , L0041859      , L0041860      ,
, L0041862      , L0041863      ,

L0041869      L0041864      , L0041865      , L0041866      , L0041867      , L0041868      ,
, L0041870      , L0041871      ,

L0041877      L0041872      , L0041873      , L0041874      , L0041875      , L0041876      ,
, L0041878      , L0041879      ,

L0041885      L0041880      , L0041881      , L0041882      , L0041883      , L0041884      ,
, L0041886      , L0041887      ,

L0041893      L0041888      , L0041889      , L0041890      , L0041891      , L0041892      ,
, L0041894      , L0041895      ,

L0041901      L0041896      , L0041897      , L0041898      , L0041899      , L0041900      ,
, L0041902      , L0041903      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc      ***      03/09/21
*** AERMET - VERSION 16216 ***      ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

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SRCGROUP ID      SOURCE IDs
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L0041909      L0041904      , L0041905      , L0041906      , L0041907      , L0041908      ,
, L0041910      , L0041911      ,

L0041917      L0041912      , L0041913      , L0041914      , L0041915      , L0041916      ,
, L0041918      , L0041919      ,

L0041925      L0041920      , L0041921      , L0041922      , L0041923      , L0041924      ,
, L0041926      , L0041927      ,

L0041933      L0041928      , L0041929      , L0041930      , L0041931      , L0041932      ,
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L0041941      L0041936      , L0041937      , L0041938      , L0041939      , L0041940      ,
, L0041942      , L0041943      ,

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SOL\_operations\_rev2.ADO

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 L0041973      L0041968      , L0041969      , L0041970      , L0041971      , L0041972      ,  
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 L0041981      L0041976      , L0041977      , L0041978      , L0041979      , L0041980      ,  
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 L0041989      L0041984      , L0041985      , L0041986      , L0041987      , L0041988      ,  
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 L0041997      L0041992      , L0041993      , L0041994      , L0041995      , L0041996      ,  
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 L0042005      L0042000      , L0042001      , L0042002      , L0042003      , L0042004      ,  
                  , L0042006      , L0042007      ,  
  
 L0042013      L0042008      , L0042009      , L0042010      , L0042011      , L0042012      ,  
                  , L0042014      , L0042015      ,  
  
 L0042021      L0042016      , L0042017      , L0042018      , L0042019      , L0042020      ,  
                  , L0042022      , L0042023      ,  
  
 L0042029      L0042024      , L0042025      , L0042026      , L0042027      , L0042028      ,  
                  , L0042030      , L0042031      ,  
  
 L0042037      L0042032      , L0042033      , L0042034      , L0042035      , L0042036      ,  
                  , L0042038      , L0042039      ,  
  
 L0042045      L0042040      , L0042041      , L0042042      , L0042043      , L0042044      ,  
                  , L0042046      , L0042047      ,  
  
 L0042053      L0042048      , L0042049      , L0042050      , L0042051      , L0042052      ,  
                  , L0042054      , L0042055      ,  
  
 L0042061      L0042056      , L0042057      , L0042058      , L0042059      , L0042060      ,  
                  , L0042062      , L0042063      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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SOL\_operations\_rev2.ADO

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
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L0042069	L0042064	, L0042065	, L0042066	, L0042067	, L0042068	,
	, L0042070	, L0042071	,			
L0042077	L0042072	, L0042073	, L0042074	, L0042075	, L0042076	,
	, L0042078	, L0042079	,			
L0042085	L0042080	, L0042081	, L0042082	, L0042083	, L0042084	,
	, L0042086	, L0042087	,			
L0042093	L0042088	, L0042089	, L0042090	, L0042091	, L0042092	,
	, L0042094	, L0042095	,			
L0042101	L0042096	, L0042097	, L0042098	, L0042099	, L0042100	,
	, L0042102	, L0042103	,			
L0042109	L0042104	, L0042105	, L0042106	, L0042107	, L0042108	,
	, L0042110	, L0042111	,			
L0042117	L0042112	, L0042113	, L0042114	, L0042115	, L0042116	,
	, L0042118	, L0042119	,			
L0042125	L0042120	, L0042121	, L0042122	, L0042123	, L0042124	,
	, L0042126	, L0042127	,			
L0042133	L0042128	, L0042129	, L0042130	, L0042131	, L0042132	,
	, L0042134	, L0042135	,			
L0042141	L0042136	, L0042137	, L0042138	, L0042139	, L0042140	,
	, L0042142	, L0042143	,			
L0042149	L0042144	, L0042145	, L0042146	, L0042147	, L0042148	,
	, L0042150	, L0042151	,			
L0042157	L0042152	, L0042153	, L0042154	, L0042155	, L0042156	,
	, L0042158	, L0042159	,			

SOL\_operations\_rev2.ADO

L0042165      L0042160      , L0042161      , L0042162      , L0042163      , L0042164      ,  
                  , L0042166      , L0042167      ,  
  
 L0042173      L0042168      , L0042169      , L0042170      , L0042171      , L0042172      ,  
                  , L0042174      , L0042175      ,  
  
 L0042181      L0042176      , L0042177      , L0042178      , L0042179      , L0042180      ,  
                  , L0042182      , L0042183      ,  
  
 L0042189      L0042184      , L0042185      , L0042186      , L0042187      , L0042188      ,  
                  , L0042190      , L0042191      ,  
  
 L0042197      L0042192      , L0042193      , L0042194      , L0042195      , L0042196      ,  
                  , L0042198      , L0042199      ,  
  
 L0042205      L0042200      , L0042201      , L0042202      , L0042203      , L0042204      ,  
                  , L0042206      , L0042207      ,  
  
 L0042213      L0042208      , L0042209      , L0042210      , L0042211      , L0042212      ,  
                  , L0042214      , L0042215      ,  
  
 L0042221      L0042216      , L0042217      , L0042218      , L0042219      , L0042220      ,  
                  , L0042222      , L0042223      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

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SOURCE IDs

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L0042229      L0042224      , L0042225      , L0042226      , L0042227      , L0042228      ,  
                  , L0042230      , L0042231      ,  
  
 L0042237      L0042232      , L0042233      , L0042234      , L0042235      , L0042236      ,  
                  , L0042238      , L0042239      ,  
  
 L0042245      L0042240      , L0042241      , L0042242      , L0042243      , L0042244      ,  
                  , L0042246      , L0042247      ,

SOL\_operations\_rev2.ADO

L0042253      L0042248      , L0042249      , L0042250      , L0042251      , L0042252      ,  
                  , L0042254      , L0042255      ,

L0042261      L0042256      , L0042257      , L0042258      , L0042259      , L0042260      ,  
                  , L0042262      , L0042263      ,

L0042269      L0042264      , L0042265      , L0042266      , L0042267      , L0042268      ,  
                  , L0042270      , L0042271      ,

L0042277      L0042272      , L0042273      , L0042274      , L0042275      , L0042276      ,  
                  , L0042278      , L0042279      ,

L0042285      L0042280      , L0042281      , L0042282      , L0042283      , L0042284      ,  
                  , L0042286      , L0042287      ,

L0042293      L0042288      , L0042289      , L0042290      , L0042291      , L0042292      ,  
                  , L0042294      , L0042295      ,

L0042301      L0042296      , L0042297      , L0042298      , L0042299      , L0042300      ,  
                  , L0042302      , L0042303      ,

L0042309      L0042304      , L0042305      , L0042306      , L0042307      , L0042308      ,  
                  , L0042310      , L0042311      ,

L0042317      L0042312      , L0042313      , L0042314      , L0042315      , L0042316      ,  
                  , L0042318      , L0042319      ,

L0042325      L0042320      , L0042321      , L0042322      , L0042323      , L0042324      ,  
                  , L0042326      , L0042327      ,

L0042333      L0042328      , L0042329      , L0042330      , L0042331      , L0042332      ,  
                  , L0042334      , L0042335      ,

L0042341      L0042336      , L0042337      , L0042338      , L0042339      , L0042340      ,  
                  , L0042342      , L0042343      ,

L0042349      L0042344      , L0042345      , L0042346      , L0042347      , L0042348      ,  
                  , L0042350      , L0042351      ,

L0042357      L0042352      , L0042353      , L0042354      , L0042355      , L0042356      ,  
                  , L0042358      , L0042359      ,

L0042365      L0042360      , L0042361      , L0042362      , L0042363      , L0042364      ,  
                  , L0042366      , L0042367      ,

L0042373      L0042368      , L0042369      , L0042370      , L0042371      , L0042372      ,  
                  , L0042374      , L0042375      ,

SOL\_operations\_rev2.ADO

L0042376 , L0042377 , L0042378 , L0042379 , L0042380 ,  
 L0042381 , L0042382 , L0042383 ,  
 \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0042389	L0042384 , L0042385 , L0042386 , L0042387 , L0042388 , , L0042390 , L0042391 ,
L0042397	L0042392 , L0042393 , L0042394 , L0042395 , L0042396 , , L0042398 , L0042399 ,
L0042405	L0042400 , L0042401 , L0042402 , L0042403 , L0042404 , , L0042406 , L0042407 ,
L0042413	L0042408 , L0042409 , L0042410 , L0042411 , L0042412 , , L0042414 , L0042415 ,
L0042421	L0042416 , L0042417 , L0042418 , L0042419 , L0042420 , , L0042422 , L0042423 ,
L0042429	L0042424 , L0042425 , L0042426 , L0042427 , L0042428 , , L0042430 , L0042431 ,
L0042437	L0042432 , L0042433 , L0042434 , L0042435 , L0042436 , , L0042438 , L0042439 ,
L0042445	L0042440 , L0042441 , L0042442 , L0042443 , L0042444 , , L0042446 , L0042447 ,
L0042453	L0042448 , L0042449 , L0042450 , L0042451 , L0042452 , , L0042454 , L0042455 ,
L0042461	L0042456 , L0042457 , L0042458 , L0042459 , L0042460 , , L0042462 , L0042463 ,

SOL\_operations\_rev2.ADO

L0042469      L0042464      , L0042465      , L0042466      , L0042467      , L0042468      ,  
                  , L0042470      , L0042471      ,  
  
 L0042477      L0042472      , L0042473      , L0042474      , L0042475      , L0042476      ,  
                  , L0042478      , L0042479      ,  
  
 L0042485      L0042480      , L0042481      , L0042482      , L0042483      , L0042484      ,  
                  , L0042486      , L0042487      ,  
  
 L0042493      L0042488      , L0042489      , L0042490      , L0042491      , L0042492      ,  
                  , L0042494      , L0042495      ,  
  
 L0042501      L0042496      , L0042497      , L0042498      , L0042499      , L0042500      ,  
                  , L0042502      , L0042503      ,  
  
 L0042509      L0042504      , L0042505      , L0042506      , L0042507      , L0042508      ,  
                  , L0042510      , L0042511      ,  
  
 L0042517      L0042512      , L0042513      , L0042514      , L0042515      , L0042516      ,  
                  , L0042518      , L0042519      ,  
  
 L0042525      L0042520      , L0042521      , L0042522      , L0042523      , L0042524      ,  
                  , L0042526      , L0042527      ,  
  
 L0042533      L0042528      , L0042529      , L0042530      , L0042531      , L0042532      ,  
                  , L0042534      , L0042535      ,  
  
 L0042541      L0042536      , L0042537      , L0042538      , L0042539      , L0042540      ,  
                  , L0042542      , L0042543      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

-----

SOURCE IDs

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L0042549      L0042544      , L0042545      , L0042546      , L0042547      , L0042548      ,  
                  , L0042550      , L0042551      ,

SOL\_operations\_rev2.ADO

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L0042565	L0042560 , L0042566	, L0042561 , L0042567	, L0042562 ,	, L0042563	, L0042564	,
L0042573	L0042568 , L0042574	, L0042569 , L0042575	, L0042570 ,	, L0042571	, L0042572	,
L0042581	L0042576 , L0042582	, L0042577 , L0042583	, L0042578 ,	, L0042579	, L0042580	,
L0042589	L0042584 , L0042590	, L0042585 , L0042591	, L0042586 ,	, L0042587	, L0042588	,
L0042597	L0042592 , L0042598	, L0042593 , L0042599	, L0042594 ,	, L0042595	, L0042596	,
L0042605	L0042600 , L0042606	, L0042601 , L0042607	, L0042602 ,	, L0042603	, L0042604	,
L0042613	L0042608 , L0042614	, L0042609 , L0042615	, L0042610 ,	, L0042611	, L0042612	,
L0042621	L0042616 , L0042622	, L0042617 , L0042623	, L0042618 ,	, L0042619	, L0042620	,
L0042629	L0042624 , L0042630	, L0042625 , L0042631	, L0042626 ,	, L0042627	, L0042628	,
L0042637	L0042632 , L0042638	, L0042633 , L0042639	, L0042634 ,	, L0042635	, L0042636	,
L0042645	L0042640 , L0042646	, L0042641 , L0042647	, L0042642 ,	, L0042643	, L0042644	,
L0042653	L0042648 , L0042654	, L0042649 , L0042655	, L0042650 ,	, L0042651	, L0042652	,
L0042661	L0042656 , L0042662	, L0042657 , L0042663	, L0042658 ,	, L0042659	, L0042660	,
L0042669	L0042664 , L0042670	, L0042665 , L0042671	, L0042666 ,	, L0042667	, L0042668	,
L0042677	L0042672 , L0042678	, L0042673 , L0042679	, L0042674 ,	, L0042675	, L0042676	,

SOL\_operations\_rev2.ADO

L0042685 , L0042680 , L0042681 , L0042682 , L0042683 , L0042684 ,  
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L0042693 , L0042694 , L0042695 ,

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▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

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L0042709 , L0042704 , L0042705 , L0042706 , L0042707 , L0042708 ,  
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L0042733 , L0042734 , L0042735 ,

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L0042757 , L0042752 , L0042753 , L0042754 , L0042755 , L0042756 ,  
L0042757 , L0042758 , L0042759 ,

L0042765 , L0042760 , L0042761 , L0042762 , L0042763 , L0042764 ,  
L0042765 , L0042766 , L0042767 ,



SOL\_operations\_rev2.ADO

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 , L0042774 , L0042775 , ,

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 , L0042790 , L0042791 , ,

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L0042805 , L0042800 , L0042801 , L0042802 , L0042803 , L0042804 ,  
 , L0042806 , L0042807 , ,

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 , L0042814 , L0042815 , ,

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 , L0042822 , L0042823 , ,

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 , L0042838 , L0042839 , ,

L0042845 , L0042840 , L0042841 , L0042842 , L0042843 , L0042844 ,  
 , L0042846 , L0042847 , ,

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L0042861 , L0042856 , L0042857 , L0042858 , L0042859 , L0042860 ,  
 , L0042862 , L0042863 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

SOL\_operations\_rev2.ADO

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L0042869      L0042864      , L0042865      , L0042866      , L0042867      , L0042868      ,
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L0042877      L0042872      , L0042873      , L0042874      , L0042875      , L0042876      ,
              , L0042878      , L0042879      ,
L0042885      L0042880      , L0042881      , L0042882      , L0042883      , L0042884      ,
              , L0042886      , L0042887      ,
L0042893      L0042888      , L0042889      , L0042890      , L0042891      , L0042892      ,
              , L0042894      , L0042895      ,
L0042901      L0042896      , L0042897      , L0042898      , L0042899      , L0042900      ,
              , L0042902      , L0042903      ,
L0042909      L0042904      , L0042905      , L0042906      , L0042907      , L0042908      ,
              , L0042910      , L0042911      ,
L0042917      L0042912      , L0042913      , L0042914      , L0042915      , L0042916      ,
              , L0042918      , L0042919      ,
L0042925      L0042920      , L0042921      , L0042922      , L0042923      , L0042924      ,
              , L0042926      , L0042927      ,
L0042933      L0042928      , L0042929      , L0042930      , L0042931      , L0042932      ,
              , L0042934      , L0042935      ,
L0042941      L0042936      , L0042937      , L0042938      , L0042939      , L0042940      ,
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L0042949      L0042944      , L0042945      , L0042946      , L0042947      , L0042948      ,
              , L0042950      , L0042951      ,
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              , L0042958      , L0042959      ,
L0042965      L0042960      , L0042961      , L0042962      , L0042963      , L0042964      ,
              , L0042966      , L0042967      ,
L0042973      L0042968      , L0042969      , L0042970      , L0042971      , L0042972      ,
              , L0042974      , L0042975      ,
L0042981      L0042976      , L0042977      , L0042978      , L0042979      , L0042980      ,
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SOL\_operations\_rev2.ADO

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            , L0042998 , L0042999 ,
L0043005    L0043000 , L0043001 , L0043002 , L0043003 , L0043004 ,
            , L0043006 , L0043007 ,
L0043013    L0043008 , L0043009 , L0043010 , L0043011 , L0043012 ,
            , L0043014 , L0043015 ,
L0043021    L0043016 , L0043017 , L0043018 , L0043019 , L0043020 ,
            , L0043022 , L0043023 ,
^ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** ***
*** 17:50:42

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
-----	-----
L0043029	L0043024 , L0043025 , L0043026 , L0043027 , L0043028 , , L0043030 , L0043031 ,
L0043037	L0043032 , L0043033 , L0043034 , L0043035 , L0043036 , , L0043038 , L0043039 ,
L0043045	L0043040 , L0043041 , L0043042 , L0043043 , L0043044 , , L0043046 , L0043047 ,
L0043053	L0043048 , L0043049 , L0043050 , L0043051 , L0043052 , , L0043054 , L0043055 ,
L0043061	L0043056 , L0043057 , L0043058 , L0043059 , L0043060 , , L0043062 , L0043063 ,
L0043069	L0043064 , L0043065 , L0043066 , L0043067 , L0043068 , , L0043070 , L0043071 ,

SOL\_operations\_rev2.ADO

L0043077 , L0043072 , L0043073 , L0043074 , L0043075 , L0043076 ,  
L0043078 , L0043079 ,  
L0043085 , L0043080 , L0043081 , L0043082 , L0043083 , L0043084 ,  
L0043086 , L0043087 ,  
L0043093 , L0043088 , L0043089 , L0043090 , L0043091 , L0043092 ,  
L0043094 , L0043095 ,  
L0043101 , L0043096 , L0043097 , L0043098 , L0043099 , L0043100 ,  
L0043102 , L0043103 ,  
L0043109 , L0043104 , L0043105 , L0043106 , L0043107 , L0043108 ,  
L0043110 , L0043111 ,  
L0043117 , L0043112 , L0043113 , L0043114 , L0043115 , L0043116 ,  
L0043118 , L0043119 ,  
L0043125 , L0043120 , L0043121 , L0043122 , L0043123 , L0043124 ,  
L0043126 , L0043127 ,  
L0043133 , L0043128 , L0043129 , L0043130 , L0043131 , L0043132 ,  
L0043134 , L0043135 ,  
L0043141 , L0043136 , L0043137 , L0043138 , L0043139 , L0043140 ,  
L0043142 , L0043143 ,  
L0043149 , L0043144 , L0043145 , L0043146 , L0043147 , L0043148 ,  
L0043150 , L0043151 ,  
L0043157 , L0043152 , L0043153 , L0043154 , L0043155 , L0043156 ,  
L0043158 , L0043159 ,  
L0043165 , L0043160 , L0043161 , L0043162 , L0043163 , L0043164 ,  
L0043166 , L0043167 ,  
L0043173 , L0043168 , L0043169 , L0043170 , L0043171 , L0043172 ,  
L0043174 , L0043175 ,  
L0043181 , L0043176 , L0043177 , L0043178 , L0043179 , L0043180 ,  
L0043182 , L0043183 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* 17:50:42

SOL\_operations\_rev2.ADO

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
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L0043189	L0043184	, L0043185	, L0043186	, L0043187	, L0043188	,
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L0043197	L0043192	, L0043193	, L0043194	, L0043195	, L0043196	,
	, L0043198	, L0043199	,			
L0043205	L0043200	, L0043201	, L0043202	, L0043203	, L0043204	,
	, L0043206	, L0043207	,			
L0043213	L0043208	, L0043209	, L0043210	, L0043211	, L0043212	,
	, L0043214	, L0043215	,			
L0043221	L0043216	, L0043217	, L0043218	, L0043219	, L0043220	,
	, L0043222	, L0043223	,			
L0043229	L0043224	, L0043225	, L0043226	, L0043227	, L0043228	,
	, L0043230	, L0043231	,			
L0043237	L0043232	, L0043233	, L0043234	, L0043235	, L0043236	,
	, L0043238	, L0043239	,			
L0043245	L0043240	, L0043241	, L0043242	, L0043243	, L0043244	,
	, L0043246	, L0043247	,			
L0043253	L0043248	, L0043249	, L0043250	, L0043251	, L0043252	,
	, L0043254	, L0043255	,			
L0043261	L0043256	, L0043257	, L0043258	, L0043259	, L0043260	,
	, L0043262	, L0043263	,			
L0043269	L0043264	, L0043265	, L0043266	, L0043267	, L0043268	,
	, L0043270	, L0043271	,			
L0043277	L0043272	, L0043273	, L0043274	, L0043275	, L0043276	,
	, L0043278	, L0043279	,			
L0043285	L0043280	, L0043281	, L0043282	, L0043283	, L0043284	,
	, L0043286	, L0043287	,			

SOL\_operations\_rev2.ADO

L0043293      L0043288      , L0043289      , L0043290      , L0043291      , L0043292      ,  
                  , L0043294      , L0043295      ,  
  
 L0043301      L0043296      , L0043297      , L0043298      , L0043299      , L0043300      ,  
                  , L0043302      , L0043303      ,  
  
 L0043309      L0043304      , L0043305      , L0043306      , L0043307      , L0043308      ,  
                  , L0043310      , L0043311      ,  
  
 L0043317      L0043312      , L0043313      , L0043314      , L0043315      , L0043316      ,  
                  , L0043318      , L0043319      ,  
  
 L0043325      L0043320      , L0043321      , L0043322      , L0043323      , L0043324      ,  
                  , L0043326      , L0043327      ,  
  
 L0043333      L0043328      , L0043329      , L0043330      , L0043331      , L0043332      ,  
                  , L0043334      , L0043335      ,  
  
 L0043341      L0043336      , L0043337      , L0043338      , L0043339      , L0043340      ,  
                  , L0043342      , L0043343      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
-----	-----
L0043349      L0043344      , L0043345      , L0043346      , L0043347      , L0043348      , , L0043350      , L0043351      ,	
L0043357      L0043352      , L0043353      , L0043354      , L0043355      , L0043356      , , L0043358      , L0043359      ,	
L0043365      L0043360      , L0043361      , L0043362      , L0043363      , L0043364      , , L0043366      , L0043367      ,	
L0043373      L0043368      , L0043369      , L0043370      , L0043371      , L0043372      , , L0043374      , L0043375      ,	

SOL\_operations\_rev2.ADO

L0043381      L0043376      , L0043377      , L0043378      , L0043379      , L0043380      ,  
                  , L0043382      , L0043383      ,

L0043389      L0043384      , L0043385      , L0043386      , L0043387      , L0043388      ,  
                  , L0043390      , L0043391      ,

L0043397      L0043392      , L0043393      , L0043394      , L0043395      , L0043396      ,  
                  , L0043398      , L0043399      ,

L0043405      L0043400      , L0043401      , L0043402      , L0043403      , L0043404      ,  
                  , L0043406      , L0043407      ,

L0043413      L0043408      , L0043409      , L0043410      , L0043411      , L0043412      ,  
                  , L0043414      , L0043415      ,

L0043421      L0043416      , L0043417      , L0043418      , L0043419      , L0043420      ,  
                  , L0043422      , L0043423      ,

L0043429      L0043424      , L0043425      , L0043426      , L0043427      , L0043428      ,  
                  , L0043430      , L0043431      ,

L0043437      L0043432      , L0043433      , L0043434      , L0043435      , L0043436      ,  
                  , L0043438      , L0043439      ,

L0043445      L0043440      , L0043441      , L0043442      , L0043443      , L0043444      ,  
                  , L0043446      , L0043447      ,

L0043453      L0043448      , L0043449      , L0043450      , L0043451      , L0043452      ,  
                  , L0043454      , L0043455      ,

L0043461      L0043456      , L0043457      , L0043458      , L0043459      , L0043460      ,  
                  , L0043462      , L0043463      ,

L0043469      L0043464      , L0043465      , L0043466      , L0043467      , L0043468      ,  
                  , L0043470      , L0043471      ,

L0043477      L0043472      , L0043473      , L0043474      , L0043475      , L0043476      ,  
                  , L0043478      , L0043479      ,

L0043485      L0043480      , L0043481      , L0043482      , L0043483      , L0043484      ,  
                  , L0043486      , L0043487      ,

L0043493      L0043488      , L0043489      , L0043490      , L0043491      , L0043492      ,  
                  , L0043494      , L0043495      ,

L0043501      L0043496      , L0043497      , L0043498      , L0043499      , L0043500      ,  
                  , L0043502      , L0043503      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
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L0043509	L0043504 , L0043510	, L0043505 , L0043511	, L0043506 ,	, L0043507	, L0043508	,
L0043517	L0043512 , L0043518	, L0043513 , L0043519	, L0043514 ,	, L0043515	, L0043516	,
L0043525	L0043520 , L0043526	, L0043521 , L0043527	, L0043522 ,	, L0043523	, L0043524	,
L0043533	L0043528 , L0043534	, L0043529 , L0043535	, L0043530 ,	, L0043531	, L0043532	,
L0043541	L0043536 , L0043542	, L0043537 , L0043543	, L0043538 ,	, L0043539	, L0043540	,
L0043549	L0043544 , L0043550	, L0043545 , L0043551	, L0043546 ,	, L0043547	, L0043548	,
L0043557	L0043552 , L0043558	, L0043553 , L0043559	, L0043554 ,	, L0043555	, L0043556	,
L0043565	L0043560 , L0043566	, L0043561 , L0043567	, L0043562 ,	, L0043563	, L0043564	,
L0043573	L0043568 , L0043574	, L0043569 , L0043575	, L0043570 ,	, L0043571	, L0043572	,
L0043581	L0043576 , L0043582	, L0043577 , L0043583	, L0043578 ,	, L0043579	, L0043580	,
L0043589	L0043584 , L0043590	, L0043585 , L0043591	, L0043586 ,	, L0043587	, L0043588	,



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L0043597      L0043592      , L0043593      , L0043594      , L0043595      , L0043596      ,  
                  , L0043598      , L0043599      ,  
  
 L0043605      L0043600      , L0043601      , L0043602      , L0043603      , L0043604      ,  
                  , L0043606      , L0043607      ,  
  
 L0043613      L0043608      , L0043609      , L0043610      , L0043611      , L0043612      ,  
                  , L0043614      , L0043615      ,  
  
 L0043621      L0043616      , L0043617      , L0043618      , L0043619      , L0043620      ,  
                  , L0043622      , L0043623      ,  
  
 L0043629      L0043624      , L0043625      , L0043626      , L0043627      , L0043628      ,  
                  , L0043630      , L0043631      ,  
  
 L0043637      L0043632      , L0043633      , L0043634      , L0043635      , L0043636      ,  
                  , L0043638      , L0043639      ,  
  
 L0043645      L0043640      , L0043641      , L0043642      , L0043643      , L0043644      ,  
                  , L0043646      , L0043647      ,  
  
 L0043653      L0043648      , L0043649      , L0043650      , L0043651      , L0043652      ,  
                  , L0043654      , L0043655      ,  
  
 L0043661      L0043656      , L0043657      , L0043658      , L0043659      , L0043660      ,  
                  , L0043662      , L0043663      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

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L0043669      L0043664      , L0043665      , L0043666      , L0043667      , L0043668      ,  
                  , L0043670      , L0043671      ,  
  
 L0043677      L0043672      , L0043673      , L0043674      , L0043675      , L0043676      ,  
                  , L0043678      , L0043679      ,

SOL\_operations\_rev2.ADO

L0043685	L0043680 , L0043686	, L0043681 , L0043687	, L0043682 ,	, L0043683	, L0043684	,
L0043693	L0043688 , L0043694	, L0043689 , L0043695	, L0043690 ,	, L0043691	, L0043692	,
L0043701	L0043696 , L0043702	, L0043697 , L0043703	, L0043698 ,	, L0043699	, L0043700	,
L0043709	L0043704 , L0043710	, L0043705 , L0043711	, L0043706 ,	, L0043707	, L0043708	,
L0043717	L0043712 , L0043718	, L0043713 , L0043719	, L0043714 ,	, L0043715	, L0043716	,
L0043725	L0043720 , L0043726	, L0043721 , L0043727	, L0043722 ,	, L0043723	, L0043724	,
L0043733	L0043728 , L0043734	, L0043729 , L0043735	, L0043730 ,	, L0043731	, L0043732	,
L0043741	L0043736 , L0043742	, L0043737 , L0043743	, L0043738 ,	, L0043739	, L0043740	,
L0043749	L0043744 , L0043750	, L0043745 , L0043751	, L0043746 ,	, L0043747	, L0043748	,
L0043757	L0043752 , L0043758	, L0043753 , L0043759	, L0043754 ,	, L0043755	, L0043756	,
L0043765	L0043760 , L0043766	, L0043761 , L0043767	, L0043762 ,	, L0043763	, L0043764	,
L0043773	L0043768 , L0043774	, L0043769 , L0043775	, L0043770 ,	, L0043771	, L0043772	,
L0043781	L0043776 , L0043782	, L0043777 , L0043783	, L0043778 ,	, L0043779	, L0043780	,
L0043789	L0043784 , L0043790	, L0043785 , L0043791	, L0043786 ,	, L0043787	, L0043788	,
L0043797	L0043792 , L0043798	, L0043793 , L0043799	, L0043794 ,	, L0043795	, L0043796	,
L0043805	L0043800 , L0043806	, L0043801 , L0043807	, L0043802 ,	, L0043803	, L0043804	,

SOL\_operations\_rev2.ADO

L0043813 , L0043808 , L0043814 , L0043809 , L0043815 , L0043810 , L0043811 , L0043812 ,

L0043821 , L0043816 , L0043822 , L0043817 , L0043823 , L0043818 , L0043819 , L0043820 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0043829	L0043824 , L0043825 , L0043826 , L0043827 , L0043828 , L0043830 , L0043831 ,
L0043837	L0043832 , L0043833 , L0043834 , L0043835 , L0043836 , L0043838 , L0043839 ,
L0043845	L0043840 , L0043841 , L0043842 , L0043843 , L0043844 , L0043846 , L0043847 ,
L0043853	L0043848 , L0043849 , L0043850 , L0043851 , L0043852 , L0043854 , L0043855 ,
L0043861	L0043856 , L0043857 , L0043858 , L0043859 , L0043860 , L0043862 , L0043863 ,
L0043869	L0043864 , L0043865 , L0043866 , L0043867 , L0043868 , L0043870 , L0043871 ,
L0043877	L0043872 , L0043873 , L0043874 , L0043875 , L0043876 , L0043878 , L0043879 ,
L0043885	L0043880 , L0043881 , L0043882 , L0043883 , L0043884 , L0043886 , L0043887 ,
L0043893	L0043888 , L0043889 , L0043890 , L0043891 , L0043892 , L0043894 , L0043895 ,

SOL\_operations\_rev2.ADO

L0043901 , L0043896 , L0043897 , L0043898 , L0043899 , L0043900 ,  
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 , L0043910 , L0043911 ,  
 L0043917 , L0043912 , L0043913 , L0043914 , L0043915 , L0043916 ,  
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 , L0043934 , L0043935 ,  
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 L0043973 , L0043968 , L0043969 , L0043970 , L0043971 , L0043972 ,  
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 L0043981 , L0043976 , L0043977 , L0043978 , L0043979 , L0043980 ,  
 , L0043982 , L0043983 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
 -----

SOURCE IDs  
 -----

SOL\_operations\_rev2.ADO

L0043989 L0043984 , L0043985 , L0043986 , L0043987 , L0043988 ,  
 , L0043990 , L0043991 , ,

L0043997 L0043992 , L0043993 , L0043994 , L0043995 , L0043996 ,  
 , L0043998 , L0043999 , ,

L0044005 L0044000 , L0044001 , L0044002 , L0044003 , L0044004 ,  
 , L0044006 , L0044007 , ,

L0044013 L0044008 , L0044009 , L0044010 , L0044011 , L0044012 ,  
 , L0044014 , L0044015 , ,

L0044021 L0044016 , L0044017 , L0044018 , L0044019 , L0044020 ,  
 , L0044022 , L0044023 , ,

L0044029 L0044024 , L0044025 , L0044026 , L0044027 , L0044028 ,  
 , L0044030 , L0044031 , ,

L0044037 L0044032 , L0044033 , L0044034 , L0044035 , L0044036 ,  
 , L0044038 , L0044039 , ,

L0044045 L0044040 , L0044041 , L0044042 , L0044043 , L0044044 ,  
 , L0044046 , L0044047 , ,

L0044053 L0044048 , L0044049 , L0044050 , L0044051 , L0044052 ,  
 , L0044054 , L0044055 , ,

L0044061 L0044056 , L0044057 , L0044058 , L0044059 , L0044060 ,  
 , L0044062 , L0044063 , ,

L0044069 L0044064 , L0044065 , L0044066 , L0044067 , L0044068 ,  
 , L0044070 , L0044071 , ,

L0044077 L0044072 , L0044073 , L0044074 , L0044075 , L0044076 ,  
 , L0044078 , L0044079 , ,

L0044085 L0044080 , L0044081 , L0044082 , L0044083 , L0044084 ,  
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L0044093 L0044088 , L0044089 , L0044090 , L0044091 , L0044092 ,  
 , L0044094 , L0044095 , ,

L0044101 L0044096 , L0044097 , L0044098 , L0044099 , L0044100 ,  
 , L0044102 , L0044103 , ,

L0044109 L0044104 , L0044105 , L0044106 , L0044107 , L0044108 ,  
 , L0044110 , L0044111 , ,

SOL\_operations\_rev2.ADO

L0044117      L0044112      , L0044113      , L0044114      , L0044115      , L0044116      ,  
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L0044125      L0044120      , L0044121      , L0044122      , L0044123      , L0044124      ,  
                 , L0044126      , L0044127      ,

L0044133      L0044128      , L0044129      , L0044130      , L0044131      , L0044132      ,  
                 , L0044134      , L0044135      ,

L0044141      L0044136      , L0044137      , L0044138      , L0044139      , L0044140      ,  
                 , L0044142      , L0044143      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
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L0044149      L0044144      , L0044145      , L0044146      , L0044147      , L0044148      ,  
                 , L0044150      , L0044151      ,

L0044157      L0044152      , L0044153      , L0044154      , L0044155      , L0044156      ,  
                 , L0044158      , L0044159      ,

L0044165      L0044160      , L0044161      , L0044162      , L0044163      , L0044164      ,  
                 , L0044166      , L0044167      ,

L0044173      L0044168      , L0044169      , L0044170      , L0044171      , L0044172      ,  
                 , L0044174      , L0044175      ,

L0044181      L0044176      , L0044177      , L0044178      , L0044179      , L0044180      ,  
                 , L0044182      , L0044183      ,

L0044189      L0044184      , L0044185      , L0044186      , L0044187      , L0044188      ,  
                 , L0044190      , L0044191      ,

L0044197      L0044192      , L0044193      , L0044194      , L0044195      , L0044196      ,  
                 , L0044198      , L0044199      ,

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L0044205      L0044200      , L0044201      , L0044202      , L0044203      , L0044204      ,  
                 , L0044206      , L0044207      ,  
  
L0044213      L0044208      , L0044209      , L0044210      , L0044211      , L0044212      ,  
                 , L0044214      , L0044215      ,  
  
L0044221      L0044216      , L0044217      , L0044218      , L0044219      , L0044220      ,  
                 , L0044222      , L0044223      ,  
  
L0044229      L0044224      , L0044225      , L0044226      , L0044227      , L0044228      ,  
                 , L0044230      , L0044231      ,  
  
L0044237      L0044232      , L0044233      , L0044234      , L0044235      , L0044236      ,  
                 , L0044238      , L0044239      ,  
  
L0044245      L0044240      , L0044241      , L0044242      , L0044243      , L0044244      ,  
                 , L0044246      , L0044247      ,  
  
L0044253      L0044248      , L0044249      , L0044250      , L0044251      , L0044252      ,  
                 , L0044254      , L0044255      ,  
  
L0044261      L0044256      , L0044257      , L0044258      , L0044259      , L0044260      ,  
                 , L0044262      , L0044263      ,  
  
L0044269      L0044264      , L0044265      , L0044266      , L0044267      , L0044268      ,  
                 , L0044270      , L0044271      ,  
  
L0044277      L0044272      , L0044273      , L0044274      , L0044275      , L0044276      ,  
                 , L0044278      , L0044279      ,  
  
L0044285      L0044280      , L0044281      , L0044282      , L0044283      , L0044284      ,  
                 , L0044286      , L0044287      ,  
  
L0044293      L0044288      , L0044289      , L0044290      , L0044291      , L0044292      ,  
                 , L0044294      , L0044295      ,  
  
L0044301      L0044296      , L0044297      , L0044298      , L0044299      , L0044300      ,  
                 , L0044302      , L0044303      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

SOL\_operations\_rev2.ADO

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SRCGROUP ID -----	SOURCE IDs -----					
L0044309	L0044304 , L0044310	, L0044305 , L0044311	, L0044306 ,	, L0044307	, L0044308	,
L0044317	L0044312 , L0044318	, L0044313 , L0044319	, L0044314 ,	, L0044315	, L0044316	,
L0044325	L0044320 , L0044326	, L0044321 , L0044327	, L0044322 ,	, L0044323	, L0044324	,
L0044333	L0044328 , L0044334	, L0044329 , L0044335	, L0044330 ,	, L0044331	, L0044332	,
L0044341	L0044336 , L0044342	, L0044337 , L0044343	, L0044338 ,	, L0044339	, L0044340	,
L0044349	L0044344 , L0044350	, L0044345 , L0044351	, L0044346 ,	, L0044347	, L0044348	,
L0044357	L0044352 , L0044358	, L0044353 , L0044359	, L0044354 ,	, L0044355	, L0044356	,
L0044365	L0044360 , L0044366	, L0044361 , L0044367	, L0044362 ,	, L0044363	, L0044364	,
L0044373	L0044368 , L0044374	, L0044369 , L0044375	, L0044370 ,	, L0044371	, L0044372	,
L0044381	L0044376 , L0044382	, L0044377 , L0044383	, L0044378 ,	, L0044379	, L0044380	,
L0044389	L0044384 , L0044390	, L0044385 , L0044391	, L0044386 ,	, L0044387	, L0044388	,
L0044397	L0044392 , L0044398	, L0044393 , L0044399	, L0044394 ,	, L0044395	, L0044396	,
L0044405	L0044400 , L0044406	, L0044401 , L0044407	, L0044402 ,	, L0044403	, L0044404	,
L0044413	L0044408 , L0044414	, L0044409 , L0044415	, L0044410 ,	, L0044411	, L0044412	,



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L0044421 , L0044416 , L0044417 , L0044418 , L0044419 , L0044420 ,  
 , L0044422 , L0044423 , ,

L0044429 , L0044424 , L0044425 , L0044426 , L0044427 , L0044428 ,  
 , L0044430 , L0044431 , ,

L0044437 , L0044432 , L0044433 , L0044434 , L0044435 , L0044436 ,  
 , L0044438 , L0044439 , ,

L0044445 , L0044440 , L0044441 , L0044442 , L0044443 , L0044444 ,  
 , L0044446 , L0044447 , ,

L0044453 , L0044448 , L0044449 , L0044450 , L0044451 , L0044452 ,  
 , L0044454 , L0044455 , ,

L0044461 , L0044456 , L0044457 , L0044458 , L0044459 , L0044460 ,  
 , L0044462 , L0044463 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

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SRCGROUP ID	SOURCE IDs				
-----	-----				
L0044469	L0044464 ,	L0044465 ,	L0044466 ,	L0044467 ,	L0044468 ,
	, L0044470	, L0044471	,		
L0044477	L0044472 ,	L0044473 ,	L0044474 ,	L0044475 ,	L0044476 ,
	, L0044478	, L0044479	,		
L0044485	L0044480 ,	L0044481 ,	L0044482 ,	L0044483 ,	L0044484 ,
	, L0044486	, L0044487	,		
L0044493	L0044488 ,	L0044489 ,	L0044490 ,	L0044491 ,	L0044492 ,
	, L0044494	, L0044495	,		
L0044501	L0044496 ,	L0044497 ,	L0044498 ,	L0044499 ,	L0044500 ,
	, L0044502	, L0044503	,		

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L0044509 , L0044504 , L0044505 , L0044506 , L0044507 , L0044508 ,  
 , L0044510 , L0044511 , ,  
  
L0044517 , L0044512 , L0044513 , L0044514 , L0044515 , L0044516 ,  
 , L0044518 , L0044519 , ,  
  
L0044525 , L0044520 , L0044521 , L0044522 , L0044523 , L0044524 ,  
 , L0044526 , L0044527 , ,  
  
L0044533 , L0044528 , L0044529 , L0044530 , L0044531 , L0044532 ,  
 , L0044534 , L0044535 , ,  
  
L0044541 , L0044536 , L0044537 , L0044538 , L0044539 , L0044540 ,  
 , L0044542 , L0044543 , ,  
  
L0044549 , L0044544 , L0044545 , L0044546 , L0044547 , L0044548 ,  
 , L0044550 , L0044551 , ,  
  
L0044557 , L0044552 , L0044553 , L0044554 , L0044555 , L0044556 ,  
 , L0044558 , L0044559 , ,  
  
L0044565 , L0044560 , L0044561 , L0044562 , L0044563 , L0044564 ,  
 , L0044566 , L0044567 , ,  
  
L0044573 , L0044568 , L0044569 , L0044570 , L0044571 , L0044572 ,  
 , L0044574 , L0044575 , ,  
  
L0044581 , L0044576 , L0044577 , L0044578 , L0044579 , L0044580 ,  
 , L0044582 , L0044583 , ,  
  
L0044589 , L0044584 , L0044585 , L0044586 , L0044587 , L0044588 ,  
 , L0044590 , L0044591 , ,  
  
L0044597 , L0044592 , L0044593 , L0044594 , L0044595 , L0044596 ,  
 , L0044598 , L0044599 , ,  
  
L0044605 , L0044600 , L0044601 , L0044602 , L0044603 , L0044604 ,  
 , L0044606 , L0044607 , ,  
  
L0044613 , L0044608 , L0044609 , L0044610 , L0044611 , L0044612 ,  
 , L0044614 , L0044615 , ,  
  
L0044621 , L0044616 , L0044617 , L0044618 , L0044619 , L0044620 ,  
 , L0044622 , L0044623 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
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L0044629	L0044624 , L0044630	L0044625 , L0044631	L0044626 ,	L0044627	L0044628	,
L0044637	L0044632 , L0044638	L0044633 , L0044639	L0044634 ,	L0044635	L0044636	,
L0044645	L0044640 , L0044646	L0044641 , L0044647	L0044642 ,	L0044643	L0044644	,
L0044653	L0044648 , L0044654	L0044649 , L0044655	L0044650 ,	L0044651	L0044652	,
L0044661	L0044656 , L0044662	L0044657 , L0044663	L0044658 ,	L0044659	L0044660	,
L0044669	L0044664 , L0044670	L0044665 , L0044671	L0044666 ,	L0044667	L0044668	,
L0044677	L0044672 , L0044678	L0044673 , L0044679	L0044674 ,	L0044675	L0044676	,
L0044685	L0044680 , L0044686	L0044681 , L0044687	L0044682 ,	L0044683	L0044684	,
L0044693	L0044688 , L0035433	L0044689 , L0035434	L0044690 ,	L0044691	L0044692	,
L0035440	L0035435 , L0035441	L0035436 , L0035442	L0035437 ,	L0035438	L0035439	,
L0035448	L0035443 , L0035449	L0035444 , L0035450	L0035445 ,	L0035446	L0035447	,
L0035456	L0035451 , L0035457	L0035452 , L0035458	L0035453 ,	L0035454	L0035455	,

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L0035464      L0035459      , L0035460      , L0035461      , L0035462      , L0035463      ,  
                  , L0035465      , L0035466      ,  
  
 L0035472      L0035467      , L0035468      , L0035469      , L0035470      , L0035471      ,  
                  , L0035473      , L0035474      ,  
  
 L0035480      L0035475      , L0035476      , L0035477      , L0035478      , L0035479      ,  
                  , L0035481      , L0035482      ,  
  
 L0035488      L0035483      , L0035484      , L0035485      , L0035486      , L0035487      ,  
                  , L0035489      , L0035490      ,  
  
 L0035496      L0035491      , L0035492      , L0035493      , L0035494      , L0035495      ,  
                  , L0035497      , L0035498      ,  
  
 L0035504      L0035499      , L0035500      , L0035501      , L0035502      , L0035503      ,  
                  , L0035505      , L0035506      ,  
  
 L0035512      L0035507      , L0035508      , L0035509      , L0035510      , L0035511      ,  
                  , L0035513      , L0035514      ,  
  
 L0035520      L0035515      , L0035516      , L0035517      , L0035518      , L0035519      ,  
                  , L0035521      , L0035522      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

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SOURCE IDs

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L0035528      L0035523      , L0035524      , L0035525      , L0035526      , L0035527      ,  
                  , L0035529      , L0035530      ,  
  
 L0035536      L0035531      , L0035532      , L0035533      , L0035534      , L0035535      ,  
                  , L0035537      , L0035538      ,  
  
 L0035544      L0035539      , L0035540      , L0035541      , L0035542      , L0035543      ,  
                  , L0035545      , L0035546      ,

SOL\_operations\_rev2.ADO

L0035552	L0035547 , L0035553	, L0035548 , L0035554	, L0035549 ,	, L0035550	, L0035551	,
L0035560	L0035555 , L0035561	, L0035556 , L0035562	, L0035557 ,	, L0035558	, L0035559	,
L0035568	L0035563 , L0035569	, L0035564 , L0035570	, L0035565 ,	, L0035566	, L0035567	,
L0035576	L0035571 , L0035577	, L0035572 , L0035578	, L0035573 ,	, L0035574	, L0035575	,
L0035584	L0035579 , L0035585	, L0035580 , L0035586	, L0035581 ,	, L0035582	, L0035583	,
L0044698	L0035587 , L0044699	, L0044694 , L0044700	, L0044695 ,	, L0044696	, L0044697	,
L0044706	L0044701 , L0044707	, L0044702 , L0044708	, L0044703 ,	, L0044704	, L0044705	,
L0044714	L0044709 , L0044715	, L0044710 , L0044716	, L0044711 ,	, L0044712	, L0044713	,
L0044722	L0044717 , L0044723	, L0044718 , L0044724	, L0044719 ,	, L0044720	, L0044721	,
L0044730	L0044725 , L0044731	, L0044726 , L0044732	, L0044727 ,	, L0044728	, L0044729	,
L0044738	L0044733 , L0044739	, L0044734 , L0044740	, L0044735 ,	, L0044736	, L0044737	,
L0044746	L0044741 , L0044747	, L0044742 , L0044748	, L0044743 ,	, L0044744	, L0044745	,
L0044754	L0044749 , L0044755	, L0044750 , L0044756	, L0044751 ,	, L0044752	, L0044753	,
L0044762	L0044757 , L0044763	, L0044758 , L0044764	, L0044759 ,	, L0044760	, L0044761	,
L0044770	L0044765 , L0044771	, L0044766 , L0044772	, L0044767 ,	, L0044768	, L0044769	,
L0044778	L0044773 , L0044779	, L0044774 , L0044780	, L0044775 ,	, L0044776	, L0044777	,

SOL\_operations\_rev2.ADO

L0044781 , L0044782 , L0044783 , L0044784 , L0044785 ,  
L0044786 , L0044787 , L0044788 ,  
^ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
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L0044794	L0044789 , L0044790 , L0044791 , L0044792 , L0044793 , , L0044795 , L0044796 ,
L0044802	L0044797 , L0044798 , L0044799 , L0044800 , L0044801 , , L0044803 , L0044804 ,
L0044810	L0044805 , L0044806 , L0044807 , L0044808 , L0044809 , , L0044811 , L0044812 ,
L0044818	L0044813 , L0044814 , L0044815 , L0044816 , L0044817 , , L0044819 , L0044820 ,
L0044826	L0044821 , L0044822 , L0044823 , L0044824 , L0044825 , , L0044827 , L0044828 ,
L0044834	L0044829 , L0044830 , L0044831 , L0044832 , L0044833 , , L0044835 , L0044836 ,
L0044842	L0044837 , L0044838 , L0044839 , L0044840 , L0044841 , , L0044843 , L0044844 ,
L0044850	L0044845 , L0044846 , L0044847 , L0044848 , L0044849 , , L0044851 , L0044852 ,
L0044858	L0044853 , L0044854 , L0044855 , L0044856 , L0044857 , , L0044859 , L0044860 ,
L0044866	L0044861 , L0044862 , L0044863 , L0044864 , L0044865 , , L0044867 , L0044868 ,

SOL\_operations\_rev2.ADO

L0044874 , L0044869 , L0044870 , L0044871 , L0044872 , L0044873 ,  
 , L0044875 , L0044876 , ,

L0044882 , L0044877 , L0044878 , L0044879 , L0044880 , L0044881 ,  
 , L0044883 , L0044884 , ,

L0044890 , L0044885 , L0044886 , L0044887 , L0044888 , L0044889 ,  
 , L0044891 , L0044892 , ,

L0044898 , L0044893 , L0044894 , L0044895 , L0044896 , L0044897 ,  
 , L0044899 , L0044900 , ,

L0044906 , L0044901 , L0044902 , L0044903 , L0044904 , L0044905 ,  
 , L0044907 , L0044908 , ,

L0044914 , L0044909 , L0044910 , L0044911 , L0044912 , L0044913 ,  
 , L0044915 , L0044916 , ,

L0044922 , L0044917 , L0044918 , L0044919 , L0044920 , L0044921 ,  
 , L0044923 , L0044924 , ,

L0044930 , L0044925 , L0044926 , L0044927 , L0044928 , L0044929 ,  
 , L0044931 , L0044932 , ,

L0044938 , L0044933 , L0044934 , L0044935 , L0044936 , L0044937 ,  
 , L0044939 , L0044940 , ,

L0044946 , L0044941 , L0044942 , L0044943 , L0044944 , L0044945 ,  
 , L0044947 , L0044948 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

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-----

L0044954 , L0044949 , L0044950 , L0044951 , L0044952 , L0044953 ,  
 , L0044955 , L0044956 , ,

SOL\_operations\_rev2.ADO

L0044962	L0044957 , L0044963	, L0044958 , L0044964	, L0044959 ,	, L0044960	, L0044961	,
L0044970	L0044965 , L0044971	, L0044966 , L0044972	, L0044967 ,	, L0044968	, L0044969	,
L0044978	L0044973 , L0044979	, L0044974 , L0044980	, L0044975 ,	, L0044976	, L0044977	,
L0044986	L0044981 , L0044987	, L0044982 , L0044988	, L0044983 ,	, L0044984	, L0044985	,
L0044994	L0044989 , L0044995	, L0044990 , L0044996	, L0044991 ,	, L0044992	, L0044993	,
L0045002	L0044997 , L0045003	, L0044998 , L0045004	, L0044999 ,	, L0045000	, L0045001	,
L0045010	L0045005 , L0045011	, L0045006 , L0045012	, L0045007 ,	, L0045008	, L0045009	,
L0045018	L0045013 , L0045019	, L0045014 , L0045020	, L0045015 ,	, L0045016	, L0045017	,
L0045026	L0045021 , L0045027	, L0045022 , L0045028	, L0045023 ,	, L0045024	, L0045025	,
L0045034	L0045029 , L0045035	, L0045030 , L0045036	, L0045031 ,	, L0045032	, L0045033	,
L0045042	L0045037 , L0045043	, L0045038 , L0045044	, L0045039 ,	, L0045040	, L0045041	,
L0045050	L0045045 , L0045051	, L0045046 , L0045052	, L0045047 ,	, L0045048	, L0045049	,
L0045058	L0045053 , L0045059	, L0045054 , L0045060	, L0045055 ,	, L0045056	, L0045057	,
L0045066	L0045061 , L0045067	, L0045062 , L0045068	, L0045063 ,	, L0045064	, L0045065	,
L0045074	L0045069 , L0045075	, L0045070 , L0045076	, L0045071 ,	, L0045072	, L0045073	,
L0045082	L0045077 , L0045083	, L0045078 , L0045084	, L0045079 ,	, L0045080	, L0045081	,



SOL\_operations\_rev2.ADO

L0045090 L0045085 , L0045086 , L0045087 , L0045088 , L0045089 ,  
 , L0045091 , L0045092 ,

L0045098 L0045093 , L0045094 , L0045095 , L0045096 , L0045097 ,  
 , L0045099 , L0045100 ,

L0045106 L0045101 , L0045102 , L0045103 , L0045104 , L0045105 ,  
 , L0045107 , L0045108 ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
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SOURCE IDs  
-----

L0045114 L0045109 , L0045110 , L0045111 , L0045112 , L0045113 ,  
 , L0045115 , L0045116 ,

L0045122 L0045117 , L0045118 , L0045119 , L0045120 , L0045121 ,  
 , L0045123 , L0045124 ,

L0045130 L0045125 , L0045126 , L0045127 , L0045128 , L0045129 ,  
 , L0045131 , L0045132 ,

L0045138 L0045133 , L0045134 , L0045135 , L0045136 , L0045137 ,  
 , L0045139 , L0045140 ,

L0045146 L0045141 , L0045142 , L0045143 , L0045144 , L0045145 ,  
 , L0045147 , L0045148 ,

L0045154 L0045149 , L0045150 , L0045151 , L0045152 , L0045153 ,  
 , L0045155 , L0045156 ,

L0045162 L0045157 , L0045158 , L0045159 , L0045160 , L0045161 ,  
 , L0045163 , L0045164 ,

L0045170 L0045165 , L0045166 , L0045167 , L0045168 , L0045169 ,  
 , L0045171 , L0045172 ,

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L0045178 , L0045173 , L0045174 , L0045175 , L0045176 , L0045177 ,  
 , L0045179 , L0045180 , ,  
 L0045186 , L0045181 , L0045182 , L0045183 , L0045184 , L0045185 ,  
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 L0045194 , L0045189 , L0045190 , L0045191 , L0045192 , L0045193 ,  
 , L0045195 , L0045196 , ,  
 L0045202 , L0045197 , L0045198 , L0045199 , L0045200 , L0045201 ,  
 , L0045203 , L0045204 , ,  
 L0045210 , L0045205 , L0045206 , L0045207 , L0045208 , L0045209 ,  
 , L0045211 , L0045212 , ,  
 L0045218 , L0045213 , L0045214 , L0045215 , L0045216 , L0045217 ,  
 , L0045219 , L0045220 , ,  
 L0045226 , L0045221 , L0045222 , L0045223 , L0045224 , L0045225 ,  
 , L0045227 , L0045228 , ,  
 L0045234 , L0045229 , L0045230 , L0045231 , L0045232 , L0045233 ,  
 , L0045235 , L0045236 , ,  
 L0045242 , L0045237 , L0045238 , L0045239 , L0045240 , L0045241 ,  
 , L0045243 , L0045244 , ,  
 L0045250 , L0045245 , L0045246 , L0045247 , L0045248 , L0045249 ,  
 , L0045251 , L0045252 , ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0040788	2035210.	L0040784 , L0040785 , L0040786 , L0040787 ,
L0040791	, L0040789	, L0040790 ,
	,	

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L0040797	L0040792 , L0040798	, L0040793 , L0040799	, L0040794 ,	, L0040795	, L0040796	,
L0040805	L0040800 , L0040806	, L0040801 , L0040807	, L0040802 ,	, L0040803	, L0040804	,
L0040813	L0040808 , L0040814	, L0040809 , L0040815	, L0040810 ,	, L0040811	, L0040812	,
L0040821	L0040816 , L0040822	, L0040817 , L0040823	, L0040818 ,	, L0040819	, L0040820	,
L0040829	L0040824 , L0040830	, L0040825 , L0040831	, L0040826 ,	, L0040827	, L0040828	,
L0040837	L0040832 , L0040838	, L0040833 , L0040839	, L0040834 ,	, L0040835	, L0040836	,
L0040845	L0040840 , L0040846	, L0040841 , L0040847	, L0040842 ,	, L0040843	, L0040844	,
L0040853	L0040848 , L0040854	, L0040849 , L0040855	, L0040850 ,	, L0040851	, L0040852	,
L0040861	L0040856 , L0040862	, L0040857 , L0040863	, L0040858 ,	, L0040859	, L0040860	,
L0040869	L0040864 , L0040870	, L0040865 , L0040871	, L0040866 ,	, L0040867	, L0040868	,
L0040877	L0040872 , L0040878	, L0040873 , L0040879	, L0040874 ,	, L0040875	, L0040876	,
L0040885	L0040880 , L0040886	, L0040881 , L0040887	, L0040882 ,	, L0040883	, L0040884	,
L0040893	L0040888 , L0040894	, L0040889 , L0040895	, L0040890 ,	, L0040891	, L0040892	,
L0040901	L0040896 , L0040902	, L0040897 , L0040903	, L0040898 ,	, L0040899	, L0040900	,
L0040909	L0040904 , L0040910	, L0040905 , L0040911	, L0040906 ,	, L0040907	, L0040908	,
L0040917	L0040912 , L0040918	, L0040913 , L0040919	, L0040914 ,	, L0040915	, L0040916	,

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L0040925      L0040920      , L0040921      , L0040922      , L0040923      , L0040924      ,
, L0040926      , L0040927      ,

L0040933      L0040928      , L0040929      , L0040930      , L0040931      , L0040932      ,
, L0040934      , L0040935      ,

L0040941      L0040936      , L0040937      , L0040938      , L0040939      , L0040940      ,
, L0040942      , L0040943      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0040949	L0040944 , L0040945 , L0040946 , L0040947 , L0040948 , L0040950 , L0040951 ,	
L0040957	L0040952 , L0040953 , L0040954 , L0040955 , L0040956 , L0040958 , L0040959 ,	
L0040965	L0040960 , L0040961 , L0040962 , L0040963 , L0040964 , L0040966 , L0040967 ,	
L0040973	L0040968 , L0040969 , L0040970 , L0040971 , L0040972 , L0040974 , L0040975 ,	
L0040981	L0040976 , L0040977 , L0040978 , L0040979 , L0040980 , L0040982 , L0040983 ,	
L0040989	L0040984 , L0040985 , L0040986 , L0040987 , L0040988 , L0040990 , L0040991 ,	
L0040997	L0040992 , L0040993 , L0040994 , L0040995 , L0040996 , L0040998 , L0040999 ,	
L0041005	L0041000 , L0041001 , L0041002 , L0041003 , L0041004 , L0041006 , L0041007 ,	

SOL\_operations\_rev2.ADO

L0041013      L0041008      , L0041009      , L0041010      , L0041011      , L0041012      ,  
                  , L0041014      , L0041015      ,  
  
L0041021      L0041016      , L0041017      , L0041018      , L0041019      , L0041020      ,  
                  , L0041022      , L0041023      ,  
  
L0041029      L0041024      , L0041025      , L0041026      , L0041027      , L0041028      ,  
                  , L0041030      , L0041031      ,  
  
L0041037      L0041032      , L0041033      , L0041034      , L0041035      , L0041036      ,  
                  , L0041038      , L0041039      ,  
  
L0041045      L0041040      , L0041041      , L0041042      , L0041043      , L0041044      ,  
                  , L0041046      , L0041047      ,  
  
L0041053      L0041048      , L0041049      , L0041050      , L0041051      , L0041052      ,  
                  , L0041054      , L0041055      ,  
  
L0041061      L0041056      , L0041057      , L0041058      , L0041059      , L0041060      ,  
                  , L0041062      , L0041063      ,  
  
L0041069      L0041064      , L0041065      , L0041066      , L0041067      , L0041068      ,  
                  , L0041070      , L0041071      ,  
  
L0041077      L0041072      , L0041073      , L0041074      , L0041075      , L0041076      ,  
                  , L0041078      , L0041079      ,  
  
L0041085      L0041080      , L0041081      , L0041082      , L0041083      , L0041084      ,  
                  , L0041086      , L0041087      ,  
  
L0041093      L0041088      , L0041089      , L0041090      , L0041091      , L0041092      ,  
                  , L0041094      , L0041095      ,  
  
L0041101      L0041096      , L0041097      , L0041098      , L0041099      , L0041100      ,  
                  , L0041102      , L0041103      ,

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

SOL\_operations\_rev2.ADO

URBAN ID -----	URBAN POP -----	SOURCE IDs -----			
L0041109	L0041104 , L0041110	, L0041105 , L0041111	, L0041106 ,	, L0041107	, L0041108 ,
L0041117	L0041112 , L0041118	, L0041113 , L0041119	, L0041114 ,	, L0041115	, L0041116 ,
L0041125	L0041120 , L0041126	, L0041121 , L0041127	, L0041122 ,	, L0041123	, L0041124 ,
L0041133	L0041128 , L0041134	, L0041129 , L0041135	, L0041130 ,	, L0041131	, L0041132 ,
L0041141	L0041136 , L0041142	, L0041137 , L0041143	, L0041138 ,	, L0041139	, L0041140 ,
L0041149	L0041144 , L0041150	, L0041145 , L0041151	, L0041146 ,	, L0041147	, L0041148 ,
L0041157	L0041152 , L0041158	, L0041153 , L0041159	, L0041154 ,	, L0041155	, L0041156 ,
L0041165	L0041160 , L0041166	, L0041161 , L0041167	, L0041162 ,	, L0041163	, L0041164 ,
L0041173	L0041168 , L0041174	, L0041169 , L0041175	, L0041170 ,	, L0041171	, L0041172 ,
L0041181	L0041176 , L0041182	, L0041177 , L0041183	, L0041178 ,	, L0041179	, L0041180 ,
L0041189	L0041184 , L0041190	, L0041185 , L0041191	, L0041186 ,	, L0041187	, L0041188 ,
L0041197	L0041192 , L0041198	, L0041193 , L0041199	, L0041194 ,	, L0041195	, L0041196 ,
L0041205	L0041200 , L0041206	, L0041201 , L0041207	, L0041202 ,	, L0041203	, L0041204 ,
L0041213	L0041208 , L0041214	, L0041209 , L0041215	, L0041210 ,	, L0041211	, L0041212 ,
L0041221	L0041216 , L0041222	, L0041217 , L0041223	, L0041218 ,	, L0041219	, L0041220 ,

SOL\_operations\_rev2.ADO

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L0041229      L0041224      , L0041225      , L0041226      , L0041227      , L0041228      ,
, L0041230      , L0041231      ,

L0041237      L0041232      , L0041233      , L0041234      , L0041235      , L0041236      ,
, L0041238      , L0041239      ,

L0041245      L0041240      , L0041241      , L0041242      , L0041243      , L0041244      ,
, L0041246      , L0041247      ,

L0041253      L0041248      , L0041249      , L0041250      , L0041251      , L0041252      ,
, L0041254      , L0041255      ,

L0041261      L0041256      , L0041257      , L0041258      , L0041259      , L0041260      ,
, L0041262      , L0041263      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0041269	L0041264 , L0041270	L0041265 , L0041271 , L0041266 , L0041267 , L0041268 ,
L0041277	L0041272 , L0041278	L0041273 , L0041279 , L0041274 , L0041275 , L0041276 ,
L0041285	L0041280 , L0041286	L0041281 , L0041287 , L0041282 , L0041283 , L0041284 ,
L0041293	L0041288 , L0041294	L0041289 , L0041295 , L0041290 , L0041291 , L0041292 ,
L0041301	L0041296 , L0041302	L0041297 , L0041303 , L0041298 , L0041299 , L0041300 ,
L0041309	L0041304 , L0041310	L0041305 , L0041311 , L0041306 , L0041307 , L0041308 ,

SOL\_operations\_rev2.ADO

L0041317 L0041312 , L0041313 , L0041314 , L0041315 , L0041316 ,  
 , L0041318 , L0041319 , ,

L0041325 L0041320 , L0041321 , L0041322 , L0041323 , L0041324 ,  
 , L0041326 , L0041327 , ,

L0041333 L0041328 , L0041329 , L0041330 , L0041331 , L0041332 ,  
 , L0041334 , L0041335 , ,

L0041341 L0041336 , L0041337 , L0041338 , L0041339 , L0041340 ,  
 , L0041342 , L0041343 , ,

L0041349 L0041344 , L0041345 , L0041346 , L0041347 , L0041348 ,  
 , L0041350 , L0041351 , ,

L0041357 L0041352 , L0041353 , L0041354 , L0041355 , L0041356 ,  
 , L0041358 , L0041359 , ,

L0041365 L0041360 , L0041361 , L0041362 , L0041363 , L0041364 ,  
 , L0041366 , L0041367 , ,

L0041373 L0041368 , L0041369 , L0041370 , L0041371 , L0041372 ,  
 , L0041374 , L0041375 , ,

L0041381 L0041376 , L0041377 , L0041378 , L0041379 , L0041380 ,  
 , L0041382 , L0041383 , ,

L0041389 L0041384 , L0041385 , L0041386 , L0041387 , L0041388 ,  
 , L0041390 , L0041391 , ,

L0041397 L0041392 , L0041393 , L0041394 , L0041395 , L0041396 ,  
 , L0041398 , L0041399 , ,

L0041405 L0041400 , L0041401 , L0041402 , L0041403 , L0041404 ,  
 , L0041406 , L0041407 , ,

L0041413 L0041408 , L0041409 , L0041410 , L0041411 , L0041412 ,  
 , L0041414 , L0041415 , ,

L0041421 L0041416 , L0041417 , L0041418 , L0041419 , L0041420 ,  
 , L0041422 , L0041423 , ,

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 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0041429	L0041424 , L0041430	, L0041425 , L0041431	, L0041426 ,	, L0041427	, L0041428	,	
L0041437	L0041432 , L0041438	, L0041433 , L0041439	, L0041434 ,	, L0041435	, L0041436	,	
L0041445	L0041440 , L0041446	, L0041441 , L0041447	, L0041442 ,	, L0041443	, L0041444	,	
L0041453	L0041448 , L0041454	, L0041449 , L0041455	, L0041450 ,	, L0041451	, L0041452	,	
L0041461	L0041456 , L0041462	, L0041457 , L0041463	, L0041458 ,	, L0041459	, L0041460	,	
L0041469	L0041464 , L0041470	, L0041465 , L0041471	, L0041466 ,	, L0041467	, L0041468	,	
L0041477	L0041472 , L0041478	, L0041473 , L0041479	, L0041474 ,	, L0041475	, L0041476	,	
L0041485	L0041480 , L0041486	, L0041481 , L0041487	, L0041482 ,	, L0041483	, L0041484	,	
L0041493	L0041488 , L0041494	, L0041489 , L0041495	, L0041490 ,	, L0041491	, L0041492	,	
L0041501	L0041496 , L0041502	, L0041497 , L0041503	, L0041498 ,	, L0041499	, L0041500	,	
L0041509	L0041504 , L0041510	, L0041505 , L0041511	, L0041506 ,	, L0041507	, L0041508	,	
L0041517	L0041512 , L0041518	, L0041513 , L0041519	, L0041514 ,	, L0041515	, L0041516	,	
L0041525	L0041520 , L0041526	, L0041521 , L0041527	, L0041522 ,	, L0041523	, L0041524	,	

SOL\_operations\_rev2.ADO

L0041533      L0041528      , L0041529      , L0041530      , L0041531      , L0041532      ,  
                  , L0041534      , L0041535      ,  
  
 L0041541      L0041536      , L0041537      , L0041538      , L0041539      , L0041540      ,  
                  , L0041542      , L0041543      ,  
  
 L0041549      L0041544      , L0041545      , L0041546      , L0041547      , L0041548      ,  
                  , L0041550      , L0041551      ,  
  
 L0041557      L0041552      , L0041553      , L0041554      , L0041555      , L0041556      ,  
                  , L0041558      , L0041559      ,  
  
 L0041565      L0041560      , L0041561      , L0041562      , L0041563      , L0041564      ,  
                  , L0041566      , L0041567      ,  
  
 L0041573      L0041568      , L0041569      , L0041570      , L0041571      , L0041572      ,  
                  , L0041574      , L0041575      ,  
  
 L0041581      L0041576      , L0041577      , L0041578      , L0041579      , L0041580      ,  
                  , L0041582      , L0041583      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0041589	L0041584 , L0041590	, L0041585 , L0041591
L0041597	L0041592 , L0041598	, L0041593 , L0041599
L0041605	L0041600 , L0041606	, L0041601 , L0041607
L0041613	L0041608 , L0041614	, L0041609 , L0041615

SOL\_operations\_rev2.ADO

L0041621 L0041616 , L0041617 , L0041618 , L0041619 , L0041620 ,  
 , L0041622 , L0041623 , ,

L0041629 L0041624 , L0041625 , L0041626 , L0041627 , L0041628 ,  
 , L0041630 , L0041631 , ,

L0041637 L0041632 , L0041633 , L0041634 , L0041635 , L0041636 ,  
 , L0041638 , L0041639 , ,

L0041645 L0041640 , L0041641 , L0041642 , L0041643 , L0041644 ,  
 , L0041646 , L0041647 , ,

L0041653 L0041648 , L0041649 , L0041650 , L0041651 , L0041652 ,  
 , L0041654 , L0041655 , ,

L0041661 L0041656 , L0041657 , L0041658 , L0041659 , L0041660 ,  
 , L0041662 , L0041663 , ,

L0041669 L0041664 , L0041665 , L0041666 , L0041667 , L0041668 ,  
 , L0041670 , L0041671 , ,

L0041677 L0041672 , L0041673 , L0041674 , L0041675 , L0041676 ,  
 , L0041678 , L0041679 , ,

L0041685 L0041680 , L0041681 , L0041682 , L0041683 , L0041684 ,  
 , L0041686 , L0041687 , ,

L0041693 L0041688 , L0041689 , L0041690 , L0041691 , L0041692 ,  
 , L0041694 , L0041695 , ,

L0041701 L0041696 , L0041697 , L0041698 , L0041699 , L0041700 ,  
 , L0041702 , L0041703 , ,

L0041709 L0041704 , L0041705 , L0041706 , L0041707 , L0041708 ,  
 , L0041710 , L0041711 , ,

L0041717 L0041712 , L0041713 , L0041714 , L0041715 , L0041716 ,  
 , L0041718 , L0041719 , ,

L0041725 L0041720 , L0041721 , L0041722 , L0041723 , L0041724 ,  
 , L0041726 , L0041727 , ,

L0041733 L0041728 , L0041729 , L0041730 , L0041731 , L0041732 ,  
 , L0041734 , L0041735 , ,

L0041741 L0041736 , L0041737 , L0041738 , L0041739 , L0041740 ,  
 , L0041742 , L0041743 , ,

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View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21
\*\*\* AERMET - VERSION 16216 \*\*\*
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

Table with 3 columns: URBAN ID, URBAN POP, and SOURCE IDs. It lists various urban source identifiers and their corresponding population values.

SOL\_operations\_rev2.ADO

L0041837      L0041832      , L0041833      , L0041834      , L0041835      , L0041836      ,  
                  , L0041838      , L0041839      ,  
  
 L0041845      L0041840      , L0041841      , L0041842      , L0041843      , L0041844      ,  
                  , L0041846      , L0041847      ,  
  
 L0041853      L0041848      , L0041849      , L0041850      , L0041851      , L0041852      ,  
                  , L0041854      , L0041855      ,  
  
 L0041861      L0041856      , L0041857      , L0041858      , L0041859      , L0041860      ,  
                  , L0041862      , L0041863      ,  
  
 L0041869      L0041864      , L0041865      , L0041866      , L0041867      , L0041868      ,  
                  , L0041870      , L0041871      ,  
  
 L0041877      L0041872      , L0041873      , L0041874      , L0041875      , L0041876      ,  
                  , L0041878      , L0041879      ,  
  
 L0041885      L0041880      , L0041881      , L0041882      , L0041883      , L0041884      ,  
                  , L0041886      , L0041887      ,  
  
 L0041893      L0041888      , L0041889      , L0041890      , L0041891      , L0041892      ,  
                  , L0041894      , L0041895      ,  
  
 L0041901      L0041896      , L0041897      , L0041898      , L0041899      , L0041900      ,  
                  , L0041902      , L0041903      ,

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0041909	L0041904 , L0041910	L0041905 , L0041911 , L0041906 , L0041907 , L0041908 ,
L0041917	L0041912 , L0041918	L0041913 , L0041919 , L0041914 , L0041915 , L0041916 ,

SOL\_operations\_rev2.ADO

L0041925      L0041920      , L0041921      , L0041922      , L0041923      , L0041924      ,  
                  , L0041926      , L0041927      ,

L0041933      L0041928      , L0041929      , L0041930      , L0041931      , L0041932      ,  
                  , L0041934      , L0041935      ,

L0041941      L0041936      , L0041937      , L0041938      , L0041939      , L0041940      ,  
                  , L0041942      , L0041943      ,

L0041949      L0041944      , L0041945      , L0041946      , L0041947      , L0041948      ,  
                  , L0041950      , L0041951      ,

L0041957      L0041952      , L0041953      , L0041954      , L0041955      , L0041956      ,  
                  , L0041958      , L0041959      ,

L0041965      L0041960      , L0041961      , L0041962      , L0041963      , L0041964      ,  
                  , L0041966      , L0041967      ,

L0041973      L0041968      , L0041969      , L0041970      , L0041971      , L0041972      ,  
                  , L0041974      , L0041975      ,

L0041981      L0041976      , L0041977      , L0041978      , L0041979      , L0041980      ,  
                  , L0041982      , L0041983      ,

L0041989      L0041984      , L0041985      , L0041986      , L0041987      , L0041988      ,  
                  , L0041990      , L0041991      ,

L0041997      L0041992      , L0041993      , L0041994      , L0041995      , L0041996      ,  
                  , L0041998      , L0041999      ,

L0042005      L0042000      , L0042001      , L0042002      , L0042003      , L0042004      ,  
                  , L0042006      , L0042007      ,

L0042013      L0042008      , L0042009      , L0042010      , L0042011      , L0042012      ,  
                  , L0042014      , L0042015      ,

L0042021      L0042016      , L0042017      , L0042018      , L0042019      , L0042020      ,  
                  , L0042022      , L0042023      ,

L0042029      L0042024      , L0042025      , L0042026      , L0042027      , L0042028      ,  
                  , L0042030      , L0042031      ,

L0042037      L0042032      , L0042033      , L0042034      , L0042035      , L0042036      ,  
                  , L0042038      , L0042039      ,

L0042045      L0042040      , L0042041      , L0042042      , L0042043      , L0042044      ,  
                  , L0042046      , L0042047      ,

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L0042053 , L0042048 , L0042049 , L0042050 , L0042051 , L0042052 ,  
 , L0042054 , L0042055 ,  
 L0042061 , L0042056 , L0042057 , L0042058 , L0042059 , L0042060 ,  
 , L0042062 , L0042063 ,  
 ▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs				
-----	-----	-----				
L0042069	L0042064 , L0042070	L0042065 , L0042071	L0042066 ,	L0042067 ,	L0042068 ,	
L0042077	L0042072 , L0042078	L0042073 , L0042079	L0042074 ,	L0042075 ,	L0042076 ,	
L0042085	L0042080 , L0042086	L0042081 , L0042087	L0042082 ,	L0042083 ,	L0042084 ,	
L0042093	L0042088 , L0042094	L0042089 , L0042095	L0042090 ,	L0042091 ,	L0042092 ,	
L0042101	L0042096 , L0042102	L0042097 , L0042103	L0042098 ,	L0042099 ,	L0042100 ,	
L0042109	L0042104 , L0042110	L0042105 , L0042111	L0042106 ,	L0042107 ,	L0042108 ,	
L0042117	L0042112 , L0042118	L0042113 , L0042119	L0042114 ,	L0042115 ,	L0042116 ,	
L0042125	L0042120 , L0042126	L0042121 , L0042127	L0042122 ,	L0042123 ,	L0042124 ,	
L0042133	L0042128 , L0042134	L0042129 , L0042135	L0042130 ,	L0042131 ,	L0042132 ,	

SOL\_operations\_rev2.ADO

L0042141      L0042136      , L0042137      , L0042138      , L0042139      , L0042140      ,  
                  , L0042142      , L0042143      ,  
  
 L0042149      L0042144      , L0042145      , L0042146      , L0042147      , L0042148      ,  
                  , L0042150      , L0042151      ,  
  
 L0042157      L0042152      , L0042153      , L0042154      , L0042155      , L0042156      ,  
                  , L0042158      , L0042159      ,  
  
 L0042165      L0042160      , L0042161      , L0042162      , L0042163      , L0042164      ,  
                  , L0042166      , L0042167      ,  
  
 L0042173      L0042168      , L0042169      , L0042170      , L0042171      , L0042172      ,  
                  , L0042174      , L0042175      ,  
  
 L0042181      L0042176      , L0042177      , L0042178      , L0042179      , L0042180      ,  
                  , L0042182      , L0042183      ,  
  
 L0042189      L0042184      , L0042185      , L0042186      , L0042187      , L0042188      ,  
                  , L0042190      , L0042191      ,  
  
 L0042197      L0042192      , L0042193      , L0042194      , L0042195      , L0042196      ,  
                  , L0042198      , L0042199      ,  
  
 L0042205      L0042200      , L0042201      , L0042202      , L0042203      , L0042204      ,  
                  , L0042206      , L0042207      ,  
  
 L0042213      L0042208      , L0042209      , L0042210      , L0042211      , L0042212      ,  
                  , L0042214      , L0042215      ,  
  
 L0042221      L0042216      , L0042217      , L0042218      , L0042219      , L0042220      ,  
                  , L0042222      , L0042223      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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SOL\_operations\_rev2.ADO

L0042229 L0042224 , L0042225 , L0042226 , L0042227 , L0042228 ,  
 , L0042230 , L0042231 , ,

L0042237 L0042232 , L0042233 , L0042234 , L0042235 , L0042236 ,  
 , L0042238 , L0042239 , ,

L0042245 L0042240 , L0042241 , L0042242 , L0042243 , L0042244 ,  
 , L0042246 , L0042247 , ,

L0042253 L0042248 , L0042249 , L0042250 , L0042251 , L0042252 ,  
 , L0042254 , L0042255 , ,

L0042261 L0042256 , L0042257 , L0042258 , L0042259 , L0042260 ,  
 , L0042262 , L0042263 , ,

L0042269 L0042264 , L0042265 , L0042266 , L0042267 , L0042268 ,  
 , L0042270 , L0042271 , ,

L0042277 L0042272 , L0042273 , L0042274 , L0042275 , L0042276 ,  
 , L0042278 , L0042279 , ,

L0042285 L0042280 , L0042281 , L0042282 , L0042283 , L0042284 ,  
 , L0042286 , L0042287 , ,

L0042293 L0042288 , L0042289 , L0042290 , L0042291 , L0042292 ,  
 , L0042294 , L0042295 , ,

L0042301 L0042296 , L0042297 , L0042298 , L0042299 , L0042300 ,  
 , L0042302 , L0042303 , ,

L0042309 L0042304 , L0042305 , L0042306 , L0042307 , L0042308 ,  
 , L0042310 , L0042311 , ,

L0042317 L0042312 , L0042313 , L0042314 , L0042315 , L0042316 ,  
 , L0042318 , L0042319 , ,

L0042325 L0042320 , L0042321 , L0042322 , L0042323 , L0042324 ,  
 , L0042326 , L0042327 , ,

L0042333 L0042328 , L0042329 , L0042330 , L0042331 , L0042332 ,  
 , L0042334 , L0042335 , ,

L0042341 L0042336 , L0042337 , L0042338 , L0042339 , L0042340 ,  
 , L0042342 , L0042343 , ,

L0042349 L0042344 , L0042345 , L0042346 , L0042347 , L0042348 ,  
 , L0042350 , L0042351 , ,

SOL\_operations\_rev2.ADO

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L0042357      L0042352      , L0042353      , L0042354      , L0042355      , L0042356      ,
, L0042358      , L0042359      ,

L0042365      L0042360      , L0042361      , L0042362      , L0042363      , L0042364      ,
, L0042366      , L0042367      ,

L0042373      L0042368      , L0042369      , L0042370      , L0042371      , L0042372      ,
, L0042374      , L0042375      ,

L0042381      L0042376      , L0042377      , L0042378      , L0042379      , L0042380      ,
, L0042382      , L0042383      ,
^ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0042389	L0042384 , L0042390	L0042385 , L0042391 , L0042386 , L0042387 , L0042388 ,
L0042397	L0042392 , L0042398	L0042393 , L0042399 , L0042394 , L0042395 , L0042396 ,
L0042405	L0042400 , L0042406	L0042401 , L0042407 , L0042402 , L0042403 , L0042404 ,
L0042413	L0042408 , L0042414	L0042409 , L0042415 , L0042410 , L0042411 , L0042412 ,
L0042421	L0042416 , L0042422	L0042417 , L0042423 , L0042418 , L0042419 , L0042420 ,
L0042429	L0042424 , L0042430	L0042425 , L0042431 , L0042426 , L0042427 , L0042428 ,
L0042437	L0042432 , L0042438	L0042433 , L0042439 , L0042434 , L0042435 , L0042436 ,

SOL\_operations\_rev2.ADO

L0042445      L0042440      , L0042441      , L0042442      , L0042443      , L0042444      ,  
                  , L0042446      , L0042447      ,  
  
L0042453      L0042448      , L0042449      , L0042450      , L0042451      , L0042452      ,  
                  , L0042454      , L0042455      ,  
  
L0042461      L0042456      , L0042457      , L0042458      , L0042459      , L0042460      ,  
                  , L0042462      , L0042463      ,  
  
L0042469      L0042464      , L0042465      , L0042466      , L0042467      , L0042468      ,  
                  , L0042470      , L0042471      ,  
  
L0042477      L0042472      , L0042473      , L0042474      , L0042475      , L0042476      ,  
                  , L0042478      , L0042479      ,  
  
L0042485      L0042480      , L0042481      , L0042482      , L0042483      , L0042484      ,  
                  , L0042486      , L0042487      ,  
  
L0042493      L0042488      , L0042489      , L0042490      , L0042491      , L0042492      ,  
                  , L0042494      , L0042495      ,  
  
L0042501      L0042496      , L0042497      , L0042498      , L0042499      , L0042500      ,  
                  , L0042502      , L0042503      ,  
  
L0042509      L0042504      , L0042505      , L0042506      , L0042507      , L0042508      ,  
                  , L0042510      , L0042511      ,  
  
L0042517      L0042512      , L0042513      , L0042514      , L0042515      , L0042516      ,  
                  , L0042518      , L0042519      ,  
  
L0042525      L0042520      , L0042521      , L0042522      , L0042523      , L0042524      ,  
                  , L0042526      , L0042527      ,  
  
L0042533      L0042528      , L0042529      , L0042530      , L0042531      , L0042532      ,  
                  , L0042534      , L0042535      ,  
  
L0042541      L0042536      , L0042537      , L0042538      , L0042539      , L0042540      ,  
                  , L0042542      , L0042543      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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SOL\_operations\_rev2.ADO

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID -----	URBAN POP -----	SOURCE IDs -----					
L0042549	L0042544 , L0042550	, L0042545 , L0042551	, L0042546 ,	, L0042547	, L0042548	,	
L0042557	L0042552 , L0042558	, L0042553 , L0042559	, L0042554 ,	, L0042555	, L0042556	,	
L0042565	L0042560 , L0042566	, L0042561 , L0042567	, L0042562 ,	, L0042563	, L0042564	,	
L0042573	L0042568 , L0042574	, L0042569 , L0042575	, L0042570 ,	, L0042571	, L0042572	,	
L0042581	L0042576 , L0042582	, L0042577 , L0042583	, L0042578 ,	, L0042579	, L0042580	,	
L0042589	L0042584 , L0042590	, L0042585 , L0042591	, L0042586 ,	, L0042587	, L0042588	,	
L0042597	L0042592 , L0042598	, L0042593 , L0042599	, L0042594 ,	, L0042595	, L0042596	,	
L0042605	L0042600 , L0042606	, L0042601 , L0042607	, L0042602 ,	, L0042603	, L0042604	,	
L0042613	L0042608 , L0042614	, L0042609 , L0042615	, L0042610 ,	, L0042611	, L0042612	,	
L0042621	L0042616 , L0042622	, L0042617 , L0042623	, L0042618 ,	, L0042619	, L0042620	,	
L0042629	L0042624 , L0042630	, L0042625 , L0042631	, L0042626 ,	, L0042627	, L0042628	,	
L0042637	L0042632 , L0042638	, L0042633 , L0042639	, L0042634 ,	, L0042635	, L0042636	,	
L0042645	L0042640 , L0042646	, L0042641 , L0042647	, L0042642 ,	, L0042643	, L0042644	,	
L0042653	L0042648 , L0042654	, L0042649 , L0042655	, L0042650 ,	, L0042651	, L0042652	,	

SOL\_operations\_rev2.ADO

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L0042661      L0042656      , L0042657      , L0042658      , L0042659      , L0042660      ,
, L0042662      , L0042663      ,

L0042669      L0042664      , L0042665      , L0042666      , L0042667      , L0042668      ,
, L0042670      , L0042671      ,

L0042677      L0042672      , L0042673      , L0042674      , L0042675      , L0042676      ,
, L0042678      , L0042679      ,

L0042685      L0042680      , L0042681      , L0042682      , L0042683      , L0042684      ,
, L0042686      , L0042687      ,

L0042693      L0042688      , L0042689      , L0042690      , L0042691      , L0042692      ,
, L0042694      , L0042695      ,

L0042701      L0042696      , L0042697      , L0042698      , L0042699      , L0042700      ,
, L0042702      , L0042703      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs				
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L0042709	L0042704 , L0042710	, L0042705 , L0042711	, L0042706 ,	, L0042707 ,	, L0042708 ,	
L0042717	L0042712 , L0042718	, L0042713 , L0042719	, L0042714 ,	, L0042715 ,	, L0042716 ,	
L0042725	L0042720 , L0042726	, L0042721 , L0042727	, L0042722 ,	, L0042723 ,	, L0042724 ,	
L0042733	L0042728 , L0042734	, L0042729 , L0042735	, L0042730 ,	, L0042731 ,	, L0042732 ,	
L0042741	L0042736 , L0042742	, L0042737 , L0042743	, L0042738 ,	, L0042739 ,	, L0042740 ,	

SOL\_operations\_rev2.ADO

L0042749      L0042744      , L0042745      , L0042746      , L0042747      , L0042748      ,  
                  , L0042750      , L0042751      ,  
  
 L0042757      L0042752      , L0042753      , L0042754      , L0042755      , L0042756      ,  
                  , L0042758      , L0042759      ,  
  
 L0042765      L0042760      , L0042761      , L0042762      , L0042763      , L0042764      ,  
                  , L0042766      , L0042767      ,  
  
 L0042773      L0042768      , L0042769      , L0042770      , L0042771      , L0042772      ,  
                  , L0042774      , L0042775      ,  
  
 L0042781      L0042776      , L0042777      , L0042778      , L0042779      , L0042780      ,  
                  , L0042782      , L0042783      ,  
  
 L0042789      L0042784      , L0042785      , L0042786      , L0042787      , L0042788      ,  
                  , L0042790      , L0042791      ,  
  
 L0042797      L0042792      , L0042793      , L0042794      , L0042795      , L0042796      ,  
                  , L0042798      , L0042799      ,  
  
 L0042805      L0042800      , L0042801      , L0042802      , L0042803      , L0042804      ,  
                  , L0042806      , L0042807      ,  
  
 L0042813      L0042808      , L0042809      , L0042810      , L0042811      , L0042812      ,  
                  , L0042814      , L0042815      ,  
  
 L0042821      L0042816      , L0042817      , L0042818      , L0042819      , L0042820      ,  
                  , L0042822      , L0042823      ,  
  
 L0042829      L0042824      , L0042825      , L0042826      , L0042827      , L0042828      ,  
                  , L0042830      , L0042831      ,  
  
 L0042837      L0042832      , L0042833      , L0042834      , L0042835      , L0042836      ,  
                  , L0042838      , L0042839      ,  
  
 L0042845      L0042840      , L0042841      , L0042842      , L0042843      , L0042844      ,  
                  , L0042846      , L0042847      ,  
  
 L0042853      L0042848      , L0042849      , L0042850      , L0042851      , L0042852      ,  
                  , L0042854      , L0042855      ,  
  
 L0042861      L0042856      , L0042857      , L0042858      , L0042859      , L0042860      ,  
                  , L0042862      , L0042863      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0042869	L0042864 , L0042870	L0042865 , L0042871	L0042866 ,	L0042867 ,	L0042868 ,		
L0042877	L0042872 , L0042878	L0042873 , L0042879	L0042874 ,	L0042875 ,	L0042876 ,		
L0042885	L0042880 , L0042886	L0042881 , L0042887	L0042882 ,	L0042883 ,	L0042884 ,		
L0042893	L0042888 , L0042894	L0042889 , L0042895	L0042890 ,	L0042891 ,	L0042892 ,		
L0042901	L0042896 , L0042902	L0042897 , L0042903	L0042898 ,	L0042899 ,	L0042900 ,		
L0042909	L0042904 , L0042910	L0042905 , L0042911	L0042906 ,	L0042907 ,	L0042908 ,		
L0042917	L0042912 , L0042918	L0042913 , L0042919	L0042914 ,	L0042915 ,	L0042916 ,		
L0042925	L0042920 , L0042926	L0042921 , L0042927	L0042922 ,	L0042923 ,	L0042924 ,		
L0042933	L0042928 , L0042934	L0042929 , L0042935	L0042930 ,	L0042931 ,	L0042932 ,		
L0042941	L0042936 , L0042942	L0042937 , L0042943	L0042938 ,	L0042939 ,	L0042940 ,		
L0042949	L0042944 , L0042950	L0042945 , L0042951	L0042946 ,	L0042947 ,	L0042948 ,		
L0042957	L0042952 , L0042958	L0042953 , L0042959	L0042954 ,	L0042955 ,	L0042956 ,		

SOL\_operations\_rev2.ADO

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L0042965      L0042960      , L0042961      , L0042962      , L0042963      , L0042964      ,
, L0042966      , L0042967      ,

L0042973      L0042968      , L0042969      , L0042970      , L0042971      , L0042972      ,
, L0042974      , L0042975      ,

L0042981      L0042976      , L0042977      , L0042978      , L0042979      , L0042980      ,
, L0042982      , L0042983      ,

L0042989      L0042984      , L0042985      , L0042986      , L0042987      , L0042988      ,
, L0042990      , L0042991      ,

L0042997      L0042992      , L0042993      , L0042994      , L0042995      , L0042996      ,
, L0042998      , L0042999      ,

L0043005      L0043000      , L0043001      , L0043002      , L0043003      , L0043004      ,
, L0043006      , L0043007      ,

L0043013      L0043008      , L0043009      , L0043010      , L0043011      , L0043012      ,
, L0043014      , L0043015      ,

L0043021      L0043016      , L0043017      , L0043018      , L0043019      , L0043020      ,
, L0043022      , L0043023      ,

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^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
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*** AERMET - VERSION 16216 ***      ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0043029	L0043024 , L0043030	L0043025 , L0043031 , L0043026 , L0043027 , L0043028 ,
L0043037	L0043032 , L0043038	L0043033 , L0043039 , L0043034 , L0043035 , L0043036 ,
L0043045	L0043040 , L0043046	L0043041 , L0043047 , L0043042 , L0043043 , L0043044 ,



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L0043053      L0043048      , L0043049      , L0043050      , L0043051      , L0043052      ,  
                   , L0043054      , L0043055      ,

L0043061      L0043056      , L0043057      , L0043058      , L0043059      , L0043060      ,  
                   , L0043062      , L0043063      ,

L0043069      L0043064      , L0043065      , L0043066      , L0043067      , L0043068      ,  
                   , L0043070      , L0043071      ,

L0043077      L0043072      , L0043073      , L0043074      , L0043075      , L0043076      ,  
                   , L0043078      , L0043079      ,

L0043085      L0043080      , L0043081      , L0043082      , L0043083      , L0043084      ,  
                   , L0043086      , L0043087      ,

L0043093      L0043088      , L0043089      , L0043090      , L0043091      , L0043092      ,  
                   , L0043094      , L0043095      ,

L0043101      L0043096      , L0043097      , L0043098      , L0043099      , L0043100      ,  
                   , L0043102      , L0043103      ,

L0043109      L0043104      , L0043105      , L0043106      , L0043107      , L0043108      ,  
                   , L0043110      , L0043111      ,

L0043117      L0043112      , L0043113      , L0043114      , L0043115      , L0043116      ,  
                   , L0043118      , L0043119      ,

L0043125      L0043120      , L0043121      , L0043122      , L0043123      , L0043124      ,  
                   , L0043126      , L0043127      ,

L0043133      L0043128      , L0043129      , L0043130      , L0043131      , L0043132      ,  
                   , L0043134      , L0043135      ,

L0043141      L0043136      , L0043137      , L0043138      , L0043139      , L0043140      ,  
                   , L0043142      , L0043143      ,

L0043149      L0043144      , L0043145      , L0043146      , L0043147      , L0043148      ,  
                   , L0043150      , L0043151      ,

L0043157      L0043152      , L0043153      , L0043154      , L0043155      , L0043156      ,  
                   , L0043158      , L0043159      ,

L0043165      L0043160      , L0043161      , L0043162      , L0043163      , L0043164      ,  
                   , L0043166      , L0043167      ,

L0043173      L0043168      , L0043169      , L0043170      , L0043171      , L0043172      ,  
                   , L0043174      , L0043175      ,

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L0043176 , L0043177 , L0043178 , L0043179 , L0043180 ,  
 L0043181 , L0043182 , L0043183 ,  
 ^ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0043189	L0043184 , L0043190	L0043185 , L0043191 , L0043186 , L0043187 , L0043188 ,
L0043197	L0043192 , L0043198	L0043193 , L0043199 , L0043194 , L0043195 , L0043196 ,
L0043205	L0043200 , L0043206	L0043201 , L0043207 , L0043202 , L0043203 , L0043204 ,
L0043213	L0043208 , L0043214	L0043209 , L0043215 , L0043210 , L0043211 , L0043212 ,
L0043221	L0043216 , L0043222	L0043217 , L0043223 , L0043218 , L0043219 , L0043220 ,
L0043229	L0043224 , L0043230	L0043225 , L0043231 , L0043226 , L0043227 , L0043228 ,
L0043237	L0043232 , L0043238	L0043233 , L0043239 , L0043234 , L0043235 , L0043236 ,
L0043245	L0043240 , L0043246	L0043241 , L0043247 , L0043242 , L0043243 , L0043244 ,
L0043253	L0043248 , L0043254	L0043249 , L0043255 , L0043250 , L0043251 , L0043252 ,
L0043261	L0043256 , L0043262	L0043257 , L0043263 , L0043258 , L0043259 , L0043260 ,

SOL\_operations\_rev2.ADO

L0043269      L0043264      , L0043265      , L0043266      , L0043267      , L0043268      ,  
                  , L0043270      , L0043271      ,  
  
 L0043277      L0043272      , L0043273      , L0043274      , L0043275      , L0043276      ,  
                  , L0043278      , L0043279      ,  
  
 L0043285      L0043280      , L0043281      , L0043282      , L0043283      , L0043284      ,  
                  , L0043286      , L0043287      ,  
  
 L0043293      L0043288      , L0043289      , L0043290      , L0043291      , L0043292      ,  
                  , L0043294      , L0043295      ,  
  
 L0043301      L0043296      , L0043297      , L0043298      , L0043299      , L0043300      ,  
                  , L0043302      , L0043303      ,  
  
 L0043309      L0043304      , L0043305      , L0043306      , L0043307      , L0043308      ,  
                  , L0043310      , L0043311      ,  
  
 L0043317      L0043312      , L0043313      , L0043314      , L0043315      , L0043316      ,  
                  , L0043318      , L0043319      ,  
  
 L0043325      L0043320      , L0043321      , L0043322      , L0043323      , L0043324      ,  
                  , L0043326      , L0043327      ,  
  
 L0043333      L0043328      , L0043329      , L0043330      , L0043331      , L0043332      ,  
                  , L0043334      , L0043335      ,  
  
 L0043341      L0043336      , L0043337      , L0043338      , L0043339      , L0043340      ,  
                  , L0043342      , L0043343      ,

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 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----

L0043349      L0043344      , L0043345      , L0043346      , L0043347      , L0043348      ,  
                  , L0043350      , L0043351      ,

SOL\_operations\_rev2.ADO

L0043357	L0043352 , L0043358	, L0043353 , L0043359	, L0043354 ,	, L0043355	, L0043356	,
L0043365	L0043360 , L0043366	, L0043361 , L0043367	, L0043362 ,	, L0043363	, L0043364	,
L0043373	L0043368 , L0043374	, L0043369 , L0043375	, L0043370 ,	, L0043371	, L0043372	,
L0043381	L0043376 , L0043382	, L0043377 , L0043383	, L0043378 ,	, L0043379	, L0043380	,
L0043389	L0043384 , L0043390	, L0043385 , L0043391	, L0043386 ,	, L0043387	, L0043388	,
L0043397	L0043392 , L0043398	, L0043393 , L0043399	, L0043394 ,	, L0043395	, L0043396	,
L0043405	L0043400 , L0043406	, L0043401 , L0043407	, L0043402 ,	, L0043403	, L0043404	,
L0043413	L0043408 , L0043414	, L0043409 , L0043415	, L0043410 ,	, L0043411	, L0043412	,
L0043421	L0043416 , L0043422	, L0043417 , L0043423	, L0043418 ,	, L0043419	, L0043420	,
L0043429	L0043424 , L0043430	, L0043425 , L0043431	, L0043426 ,	, L0043427	, L0043428	,
L0043437	L0043432 , L0043438	, L0043433 , L0043439	, L0043434 ,	, L0043435	, L0043436	,
L0043445	L0043440 , L0043446	, L0043441 , L0043447	, L0043442 ,	, L0043443	, L0043444	,
L0043453	L0043448 , L0043454	, L0043449 , L0043455	, L0043450 ,	, L0043451	, L0043452	,
L0043461	L0043456 , L0043462	, L0043457 , L0043463	, L0043458 ,	, L0043459	, L0043460	,
L0043469	L0043464 , L0043470	, L0043465 , L0043471	, L0043466 ,	, L0043467	, L0043468	,
L0043477	L0043472 , L0043478	, L0043473 , L0043479	, L0043474 ,	, L0043475	, L0043476	,

SOL\_operations\_rev2.ADO

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L0043485      L0043480      , L0043481      , L0043482      , L0043483      , L0043484      ,
, L0043486      , L0043487      ,

L0043493      L0043488      , L0043489      , L0043490      , L0043491      , L0043492      ,
, L0043494      , L0043495      ,

L0043501      L0043496      , L0043497      , L0043498      , L0043499      , L0043500      ,
, L0043502      , L0043503      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc      ***      03/09/21
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0043509	L0043504 , L0043510	L0043505 , L0043511 , L0043506 , L0043507 , L0043508 ,
L0043517	L0043512 , L0043518	L0043513 , L0043519 , L0043514 , L0043515 , L0043516 ,
L0043525	L0043520 , L0043526	L0043521 , L0043527 , L0043522 , L0043523 , L0043524 ,
L0043533	L0043528 , L0043534	L0043529 , L0043535 , L0043530 , L0043531 , L0043532 ,
L0043541	L0043536 , L0043542	L0043537 , L0043543 , L0043538 , L0043539 , L0043540 ,
L0043549	L0043544 , L0043550	L0043545 , L0043551 , L0043546 , L0043547 , L0043548 ,
L0043557	L0043552 , L0043558	L0043553 , L0043559 , L0043554 , L0043555 , L0043556 ,
L0043565	L0043560 , L0043566	L0043561 , L0043567 , L0043562 , L0043563 , L0043564 ,

SOL\_operations\_rev2.ADO

L0043573      L0043568      , L0043569      , L0043570      , L0043571      , L0043572      ,  
                  , L0043574      , L0043575      ,  
  
L0043581      L0043576      , L0043577      , L0043578      , L0043579      , L0043580      ,  
                  , L0043582      , L0043583      ,  
  
L0043589      L0043584      , L0043585      , L0043586      , L0043587      , L0043588      ,  
                  , L0043590      , L0043591      ,  
  
L0043597      L0043592      , L0043593      , L0043594      , L0043595      , L0043596      ,  
                  , L0043598      , L0043599      ,  
  
L0043605      L0043600      , L0043601      , L0043602      , L0043603      , L0043604      ,  
                  , L0043606      , L0043607      ,  
  
L0043613      L0043608      , L0043609      , L0043610      , L0043611      , L0043612      ,  
                  , L0043614      , L0043615      ,  
  
L0043621      L0043616      , L0043617      , L0043618      , L0043619      , L0043620      ,  
                  , L0043622      , L0043623      ,  
  
L0043629      L0043624      , L0043625      , L0043626      , L0043627      , L0043628      ,  
                  , L0043630      , L0043631      ,  
  
L0043637      L0043632      , L0043633      , L0043634      , L0043635      , L0043636      ,  
                  , L0043638      , L0043639      ,  
  
L0043645      L0043640      , L0043641      , L0043642      , L0043643      , L0043644      ,  
                  , L0043646      , L0043647      ,  
  
L0043653      L0043648      , L0043649      , L0043650      , L0043651      , L0043652      ,  
                  , L0043654      , L0043655      ,  
  
L0043661      L0043656      , L0043657      , L0043658      , L0043659      , L0043660      ,  
                  , L0043662      , L0043663      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

SOL\_operations\_rev2.ADO

URBAN ID -----	URBAN POP -----	SOURCE IDs -----			
L0043669	L0043664 , L0043670	, L0043665 , L0043671	, L0043666 ,	, L0043667	, L0043668 ,
L0043677	L0043672 , L0043678	, L0043673 , L0043679	, L0043674 ,	, L0043675	, L0043676 ,
L0043685	L0043680 , L0043686	, L0043681 , L0043687	, L0043682 ,	, L0043683	, L0043684 ,
L0043693	L0043688 , L0043694	, L0043689 , L0043695	, L0043690 ,	, L0043691	, L0043692 ,
L0043701	L0043696 , L0043702	, L0043697 , L0043703	, L0043698 ,	, L0043699	, L0043700 ,
L0043709	L0043704 , L0043710	, L0043705 , L0043711	, L0043706 ,	, L0043707	, L0043708 ,
L0043717	L0043712 , L0043718	, L0043713 , L0043719	, L0043714 ,	, L0043715	, L0043716 ,
L0043725	L0043720 , L0043726	, L0043721 , L0043727	, L0043722 ,	, L0043723	, L0043724 ,
L0043733	L0043728 , L0043734	, L0043729 , L0043735	, L0043730 ,	, L0043731	, L0043732 ,
L0043741	L0043736 , L0043742	, L0043737 , L0043743	, L0043738 ,	, L0043739	, L0043740 ,
L0043749	L0043744 , L0043750	, L0043745 , L0043751	, L0043746 ,	, L0043747	, L0043748 ,
L0043757	L0043752 , L0043758	, L0043753 , L0043759	, L0043754 ,	, L0043755	, L0043756 ,
L0043765	L0043760 , L0043766	, L0043761 , L0043767	, L0043762 ,	, L0043763	, L0043764 ,
L0043773	L0043768 , L0043774	, L0043769 , L0043775	, L0043770 ,	, L0043771	, L0043772 ,
L0043781	L0043776 , L0043782	, L0043777 , L0043783	, L0043778 ,	, L0043779	, L0043780 ,

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L0043789      L0043784      , L0043785      , L0043786      , L0043787      , L0043788      ,
              , L0043790      , L0043791      ,
L0043797      L0043792      , L0043793      , L0043794      , L0043795      , L0043796      ,
              , L0043798      , L0043799      ,
L0043805      L0043800      , L0043801      , L0043802      , L0043803      , L0043804      ,
              , L0043806      , L0043807      ,
L0043813      L0043808      , L0043809      , L0043810      , L0043811      , L0043812      ,
              , L0043814      , L0043815      ,
L0043821      L0043816      , L0043817      , L0043818      , L0043819      , L0043820      ,
              , L0043822      , L0043823      ,
^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc      ***      03/09/21
*** AERMET - VERSION 16216 ***      ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0043829	L0043824 , L0043830	L0043825 , L0043831 , L0043826 , L0043827 , L0043828
L0043837	L0043832 , L0043838	L0043833 , L0043839 , L0043834 , L0043835 , L0043836
L0043845	L0043840 , L0043846	L0043841 , L0043847 , L0043842 , L0043843 , L0043844
L0043853	L0043848 , L0043854	L0043849 , L0043855 , L0043850 , L0043851 , L0043852
L0043861	L0043856 , L0043862	L0043857 , L0043863 , L0043858 , L0043859 , L0043860
L0043869	L0043864 , L0043870	L0043865 , L0043871 , L0043866 , L0043867 , L0043868



SOL\_operations\_rev2.ADO

L0043877      L0043872      , L0043873      , L0043874      , L0043875      , L0043876      ,  
                  , L0043878      , L0043879      ,  
  
 L0043885      L0043880      , L0043881      , L0043882      , L0043883      , L0043884      ,  
                  , L0043886      , L0043887      ,  
  
 L0043893      L0043888      , L0043889      , L0043890      , L0043891      , L0043892      ,  
                  , L0043894      , L0043895      ,  
  
 L0043901      L0043896      , L0043897      , L0043898      , L0043899      , L0043900      ,  
                  , L0043902      , L0043903      ,  
  
 L0043909      L0043904      , L0043905      , L0043906      , L0043907      , L0043908      ,  
                  , L0043910      , L0043911      ,  
  
 L0043917      L0043912      , L0043913      , L0043914      , L0043915      , L0043916      ,  
                  , L0043918      , L0043919      ,  
  
 L0043925      L0043920      , L0043921      , L0043922      , L0043923      , L0043924      ,  
                  , L0043926      , L0043927      ,  
  
 L0043933      L0043928      , L0043929      , L0043930      , L0043931      , L0043932      ,  
                  , L0043934      , L0043935      ,  
  
 L0043941      L0043936      , L0043937      , L0043938      , L0043939      , L0043940      ,  
                  , L0043942      , L0043943      ,  
  
 L0043949      L0043944      , L0043945      , L0043946      , L0043947      , L0043948      ,  
                  , L0043950      , L0043951      ,  
  
 L0043957      L0043952      , L0043953      , L0043954      , L0043955      , L0043956      ,  
                  , L0043958      , L0043959      ,  
  
 L0043965      L0043960      , L0043961      , L0043962      , L0043963      , L0043964      ,  
                  , L0043966      , L0043967      ,  
  
 L0043973      L0043968      , L0043969      , L0043970      , L0043971      , L0043972      ,  
                  , L0043974      , L0043975      ,  
  
 L0043981      L0043976      , L0043977      , L0043978      , L0043979      , L0043980      ,  
                  , L0043982      , L0043983      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                  \*\*\*      17:50:42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs				
-----	-----	-----				
L0043989	L0043984 , L0043990	L0043985 , L0043991	L0043986 ,	L0043987 ,	L0043988 ,	
L0043997	L0043992 , L0043998	L0043993 , L0043999	L0043994 ,	L0043995 ,	L0043996 ,	
L0044005	L0044000 , L0044006	L0044001 , L0044007	L0044002 ,	L0044003 ,	L0044004 ,	
L0044013	L0044008 , L0044014	L0044009 , L0044015	L0044010 ,	L0044011 ,	L0044012 ,	
L0044021	L0044016 , L0044022	L0044017 , L0044023	L0044018 ,	L0044019 ,	L0044020 ,	
L0044029	L0044024 , L0044030	L0044025 , L0044031	L0044026 ,	L0044027 ,	L0044028 ,	
L0044037	L0044032 , L0044038	L0044033 , L0044039	L0044034 ,	L0044035 ,	L0044036 ,	
L0044045	L0044040 , L0044046	L0044041 , L0044047	L0044042 ,	L0044043 ,	L0044044 ,	
L0044053	L0044048 , L0044054	L0044049 , L0044055	L0044050 ,	L0044051 ,	L0044052 ,	
L0044061	L0044056 , L0044062	L0044057 , L0044063	L0044058 ,	L0044059 ,	L0044060 ,	
L0044069	L0044064 , L0044070	L0044065 , L0044071	L0044066 ,	L0044067 ,	L0044068 ,	
L0044077	L0044072 , L0044078	L0044073 , L0044079	L0044074 ,	L0044075 ,	L0044076 ,	
L0044085	L0044080 , L0044086	L0044081 , L0044087	L0044082 ,	L0044083 ,	L0044084 ,	

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L0044093      L0044088      , L0044089      , L0044090      , L0044091      , L0044092      ,  
                  , L0044094      , L0044095      ,  
  
 L0044101      L0044096      , L0044097      , L0044098      , L0044099      , L0044100      ,  
                  , L0044102      , L0044103      ,  
  
 L0044109      L0044104      , L0044105      , L0044106      , L0044107      , L0044108      ,  
                  , L0044110      , L0044111      ,  
  
 L0044117      L0044112      , L0044113      , L0044114      , L0044115      , L0044116      ,  
                  , L0044118      , L0044119      ,  
  
 L0044125      L0044120      , L0044121      , L0044122      , L0044123      , L0044124      ,  
                  , L0044126      , L0044127      ,  
  
 L0044133      L0044128      , L0044129      , L0044130      , L0044131      , L0044132      ,  
                  , L0044134      , L0044135      ,  
  
 L0044141      L0044136      , L0044137      , L0044138      , L0044139      , L0044140      ,  
                  , L0044142      , L0044143      ,

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0044149	L0044144 , L0044150	, L0044145 , L0044151
		, L0044146 , L0044152
		, L0044147 , L0044153
		, L0044148 , L0044154
L0044157	L0044152 , L0044158	, L0044153 , L0044159
		, L0044154 , L0044160
		, L0044155 , L0044161
		, L0044156 , L0044162
L0044165	L0044160 , L0044166	, L0044161 , L0044167
		, L0044162 , L0044163
		, L0044163 , L0044164
		, L0044164 , L0044165
L0044173	L0044168 , L0044174	, L0044169 , L0044175
		, L0044170 , L0044171
		, L0044171 , L0044172
		, L0044172

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L0044181	L0044176 , L0044182	, L0044177 , L0044183	, L0044178 ,	, L0044179	, L0044180	,
L0044189	L0044184 , L0044190	, L0044185 , L0044191	, L0044186 ,	, L0044187	, L0044188	,
L0044197	L0044192 , L0044198	, L0044193 , L0044199	, L0044194 ,	, L0044195	, L0044196	,
L0044205	L0044200 , L0044206	, L0044201 , L0044207	, L0044202 ,	, L0044203	, L0044204	,
L0044213	L0044208 , L0044214	, L0044209 , L0044215	, L0044210 ,	, L0044211	, L0044212	,
L0044221	L0044216 , L0044222	, L0044217 , L0044223	, L0044218 ,	, L0044219	, L0044220	,
L0044229	L0044224 , L0044230	, L0044225 , L0044231	, L0044226 ,	, L0044227	, L0044228	,
L0044237	L0044232 , L0044238	, L0044233 , L0044239	, L0044234 ,	, L0044235	, L0044236	,
L0044245	L0044240 , L0044246	, L0044241 , L0044247	, L0044242 ,	, L0044243	, L0044244	,
L0044253	L0044248 , L0044254	, L0044249 , L0044255	, L0044250 ,	, L0044251	, L0044252	,
L0044261	L0044256 , L0044262	, L0044257 , L0044263	, L0044258 ,	, L0044259	, L0044260	,
L0044269	L0044264 , L0044270	, L0044265 , L0044271	, L0044266 ,	, L0044267	, L0044268	,
L0044277	L0044272 , L0044278	, L0044273 , L0044279	, L0044274 ,	, L0044275	, L0044276	,
L0044285	L0044280 , L0044286	, L0044281 , L0044287	, L0044282 ,	, L0044283	, L0044284	,
L0044293	L0044288 , L0044294	, L0044289 , L0044295	, L0044290 ,	, L0044291	, L0044292	,
L0044301	L0044296 , L0044302	, L0044297 , L0044303	, L0044298 ,	, L0044299	, L0044300	,

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

Table with 3 columns: URBAN ID, URBAN POP, and SOURCE IDs. It lists various urban source identifiers and their corresponding population values.

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L0044397      L0044392      , L0044393      , L0044394      , L0044395      , L0044396      ,  
                  , L0044398      , L0044399      ,  
  
 L0044405      L0044400      , L0044401      , L0044402      , L0044403      , L0044404      ,  
                  , L0044406      , L0044407      ,  
  
 L0044413      L0044408      , L0044409      , L0044410      , L0044411      , L0044412      ,  
                  , L0044414      , L0044415      ,  
  
 L0044421      L0044416      , L0044417      , L0044418      , L0044419      , L0044420      ,  
                  , L0044422      , L0044423      ,  
  
 L0044429      L0044424      , L0044425      , L0044426      , L0044427      , L0044428      ,  
                  , L0044430      , L0044431      ,  
  
 L0044437      L0044432      , L0044433      , L0044434      , L0044435      , L0044436      ,  
                  , L0044438      , L0044439      ,  
  
 L0044445      L0044440      , L0044441      , L0044442      , L0044443      , L0044444      ,  
                  , L0044446      , L0044447      ,  
  
 L0044453      L0044448      , L0044449      , L0044450      , L0044451      , L0044452      ,  
                  , L0044454      , L0044455      ,  
  
 L0044461      L0044456      , L0044457      , L0044458      , L0044459      , L0044460      ,  
                  , L0044462      , L0044463      ,

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0044469	L0044464 , L0044470	L0044465 , L0044471 , L0044466 , L0044467 , L0044468
L0044477	L0044472 , L0044478	L0044473 , L0044479 , L0044474 , L0044475 , L0044476

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L0044485	L0044480 , L0044486	, L0044481 , L0044487	, L0044482 ,	, L0044483	, L0044484	,
L0044493	L0044488 , L0044494	, L0044489 , L0044495	, L0044490 ,	, L0044491	, L0044492	,
L0044501	L0044496 , L0044502	, L0044497 , L0044503	, L0044498 ,	, L0044499	, L0044500	,
L0044509	L0044504 , L0044510	, L0044505 , L0044511	, L0044506 ,	, L0044507	, L0044508	,
L0044517	L0044512 , L0044518	, L0044513 , L0044519	, L0044514 ,	, L0044515	, L0044516	,
L0044525	L0044520 , L0044526	, L0044521 , L0044527	, L0044522 ,	, L0044523	, L0044524	,
L0044533	L0044528 , L0044534	, L0044529 , L0044535	, L0044530 ,	, L0044531	, L0044532	,
L0044541	L0044536 , L0044542	, L0044537 , L0044543	, L0044538 ,	, L0044539	, L0044540	,
L0044549	L0044544 , L0044550	, L0044545 , L0044551	, L0044546 ,	, L0044547	, L0044548	,
L0044557	L0044552 , L0044558	, L0044553 , L0044559	, L0044554 ,	, L0044555	, L0044556	,
L0044565	L0044560 , L0044566	, L0044561 , L0044567	, L0044562 ,	, L0044563	, L0044564	,
L0044573	L0044568 , L0044574	, L0044569 , L0044575	, L0044570 ,	, L0044571	, L0044572	,
L0044581	L0044576 , L0044582	, L0044577 , L0044583	, L0044578 ,	, L0044579	, L0044580	,
L0044589	L0044584 , L0044590	, L0044585 , L0044591	, L0044586 ,	, L0044587	, L0044588	,
L0044597	L0044592 , L0044598	, L0044593 , L0044599	, L0044594 ,	, L0044595	, L0044596	,
L0044605	L0044600 , L0044606	, L0044601 , L0044607	, L0044602 ,	, L0044603	, L0044604	,

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L0044613 , L0044608 , L0044609 , L0044610 , L0044611 , L0044612 ,  
 , L0044614 , L0044615 ,  
 L0044621 , L0044616 , L0044617 , L0044618 , L0044619 , L0044620 ,  
 , L0044622 , L0044623 ,  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs				
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L0044629	L0044624 , L0044630	L0044625 , L0044631	L0044626 ,	L0044627 ,	L0044628 ,	
L0044637	L0044632 , L0044638	L0044633 , L0044639	L0044634 ,	L0044635 ,	L0044636 ,	
L0044645	L0044640 , L0044646	L0044641 , L0044647	L0044642 ,	L0044643 ,	L0044644 ,	
L0044653	L0044648 , L0044654	L0044649 , L0044655	L0044650 ,	L0044651 ,	L0044652 ,	
L0044661	L0044656 , L0044662	L0044657 , L0044663	L0044658 ,	L0044659 ,	L0044660 ,	
L0044669	L0044664 , L0044670	L0044665 , L0044671	L0044666 ,	L0044667 ,	L0044668 ,	
L0044677	L0044672 , L0044678	L0044673 , L0044679	L0044674 ,	L0044675 ,	L0044676 ,	
L0044685	L0044680 , L0044686	L0044681 , L0044687	L0044682 ,	L0044683 ,	L0044684 ,	
L0044693	L0044688 , L0035433	L0044689 , L0035434	L0044690 ,	L0044691 ,	L0044692 ,	



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L0035440 L0035435 , L0035436 , L0035437 , L0035438 , L0035439 ,  
 , L0035441 , L0035442 , ,  
 L0035448 L0035443 , L0035444 , L0035445 , L0035446 , L0035447 ,  
 , L0035449 , L0035450 , ,  
 L0035456 L0035451 , L0035452 , L0035453 , L0035454 , L0035455 ,  
 , L0035457 , L0035458 , ,  
 L0035464 L0035459 , L0035460 , L0035461 , L0035462 , L0035463 ,  
 , L0035465 , L0035466 , ,  
 L0035472 L0035467 , L0035468 , L0035469 , L0035470 , L0035471 ,  
 , L0035473 , L0035474 , ,  
 L0035480 L0035475 , L0035476 , L0035477 , L0035478 , L0035479 ,  
 , L0035481 , L0035482 , ,  
 L0035488 L0035483 , L0035484 , L0035485 , L0035486 , L0035487 ,  
 , L0035489 , L0035490 , ,  
 L0035496 L0035491 , L0035492 , L0035493 , L0035494 , L0035495 ,  
 , L0035497 , L0035498 , ,  
 L0035504 L0035499 , L0035500 , L0035501 , L0035502 , L0035503 ,  
 , L0035505 , L0035506 , ,  
 L0035512 L0035507 , L0035508 , L0035509 , L0035510 , L0035511 ,  
 , L0035513 , L0035514 , ,  
 L0035520 L0035515 , L0035516 , L0035517 , L0035518 , L0035519 ,  
 , L0035521 , L0035522 , ,

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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SOL\_operations\_rev2.ADO

L0035528	L0035523 , L0035529	, L0035524 , L0035530	, L0035525 ,	, L0035526	, L0035527	,
L0035536	L0035531 , L0035537	, L0035532 , L0035538	, L0035533 ,	, L0035534	, L0035535	,
L0035544	L0035539 , L0035545	, L0035540 , L0035546	, L0035541 ,	, L0035542	, L0035543	,
L0035552	L0035547 , L0035553	, L0035548 , L0035554	, L0035549 ,	, L0035550	, L0035551	,
L0035560	L0035555 , L0035561	, L0035556 , L0035562	, L0035557 ,	, L0035558	, L0035559	,
L0035568	L0035563 , L0035569	, L0035564 , L0035570	, L0035565 ,	, L0035566	, L0035567	,
L0035576	L0035571 , L0035577	, L0035572 , L0035578	, L0035573 ,	, L0035574	, L0035575	,
L0035584	L0035579 , L0035585	, L0035580 , L0035586	, L0035581 ,	, L0035582	, L0035583	,
L0044698	L0035587 , L0044699	, L0044694 , L0044700	, L0044695 ,	, L0044696	, L0044697	,
L0044706	L0044701 , L0044707	, L0044702 , L0044708	, L0044703 ,	, L0044704	, L0044705	,
L0044714	L0044709 , L0044715	, L0044710 , L0044716	, L0044711 ,	, L0044712	, L0044713	,
L0044722	L0044717 , L0044723	, L0044718 , L0044724	, L0044719 ,	, L0044720	, L0044721	,
L0044730	L0044725 , L0044731	, L0044726 , L0044732	, L0044727 ,	, L0044728	, L0044729	,
L0044738	L0044733 , L0044739	, L0044734 , L0044740	, L0044735 ,	, L0044736	, L0044737	,
L0044746	L0044741 , L0044747	, L0044742 , L0044748	, L0044743 ,	, L0044744	, L0044745	,
L0044754	L0044749 , L0044755	, L0044750 , L0044756	, L0044751 ,	, L0044752	, L0044753	,

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L0044762      L0044757      , L0044758      , L0044759      , L0044760      , L0044761      ,
, L0044763      , L0044764      ,

L0044770      L0044765      , L0044766      , L0044767      , L0044768      , L0044769      ,
, L0044771      , L0044772      ,

L0044778      L0044773      , L0044774      , L0044775      , L0044776      , L0044777      ,
, L0044779      , L0044780      ,

L0044786      L0044781      , L0044782      , L0044783      , L0044784      , L0044785      ,
, L0044787      , L0044788      ,
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

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URBAN ID	URBAN POP	SOURCE IDs
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L0044794	L0044789 , L0044795	L0044790 , L0044796 , L0044791 , L0044792 , L0044793 ,
L0044802	L0044797 , L0044803	L0044798 , L0044804 , L0044799 , L0044800 , L0044801 ,
L0044810	L0044805 , L0044811	L0044806 , L0044812 , L0044807 , L0044808 , L0044809 ,
L0044818	L0044813 , L0044819	L0044814 , L0044820 , L0044815 , L0044816 , L0044817 ,
L0044826	L0044821 , L0044827	L0044822 , L0044828 , L0044823 , L0044824 , L0044825 ,
L0044834	L0044829 , L0044835	L0044830 , L0044836 , L0044831 , L0044832 , L0044833 ,
L0044842	L0044837 , L0044843	L0044838 , L0044844 , L0044839 , L0044840 , L0044841 ,

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L0044850      L0044845      , L0044846      , L0044847      , L0044848      , L0044849      ,  
                  , L0044851      , L0044852      ,  
  
 L0044858      L0044853      , L0044854      , L0044855      , L0044856      , L0044857      ,  
                  , L0044859      , L0044860      ,  
  
 L0044866      L0044861      , L0044862      , L0044863      , L0044864      , L0044865      ,  
                  , L0044867      , L0044868      ,  
  
 L0044874      L0044869      , L0044870      , L0044871      , L0044872      , L0044873      ,  
                  , L0044875      , L0044876      ,  
  
 L0044882      L0044877      , L0044878      , L0044879      , L0044880      , L0044881      ,  
                  , L0044883      , L0044884      ,  
  
 L0044890      L0044885      , L0044886      , L0044887      , L0044888      , L0044889      ,  
                  , L0044891      , L0044892      ,  
  
 L0044898      L0044893      , L0044894      , L0044895      , L0044896      , L0044897      ,  
                  , L0044899      , L0044900      ,  
  
 L0044906      L0044901      , L0044902      , L0044903      , L0044904      , L0044905      ,  
                  , L0044907      , L0044908      ,  
  
 L0044914      L0044909      , L0044910      , L0044911      , L0044912      , L0044913      ,  
                  , L0044915      , L0044916      ,  
  
 L0044922      L0044917      , L0044918      , L0044919      , L0044920      , L0044921      ,  
                  , L0044923      , L0044924      ,  
  
 L0044930      L0044925      , L0044926      , L0044927      , L0044928      , L0044929      ,  
                  , L0044931      , L0044932      ,  
  
 L0044938      L0044933      , L0044934      , L0044935      , L0044936      , L0044937      ,  
                  , L0044939      , L0044940      ,  
  
 L0044946      L0044941      , L0044942      , L0044943      , L0044944      , L0044945      ,  
                  , L0044947      , L0044948      ,

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

\*\*\*

URBAN ID -----	URBAN POP -----	SOURCE IDs -----				
L0044954	L0044949 , L0044955	, L0044950 , L0044956	, L0044951 ,	, L0044952	, L0044953 ,	
L0044962	L0044957 , L0044963	, L0044958 , L0044964	, L0044959 ,	, L0044960	, L0044961 ,	
L0044970	L0044965 , L0044971	, L0044966 , L0044972	, L0044967 ,	, L0044968	, L0044969 ,	
L0044978	L0044973 , L0044979	, L0044974 , L0044980	, L0044975 ,	, L0044976	, L0044977 ,	
L0044986	L0044981 , L0044987	, L0044982 , L0044988	, L0044983 ,	, L0044984	, L0044985 ,	
L0044994	L0044989 , L0044995	, L0044990 , L0044996	, L0044991 ,	, L0044992	, L0044993 ,	
L0045002	L0044997 , L0045003	, L0044998 , L0045004	, L0044999 ,	, L0045000	, L0045001 ,	
L0045010	L0045005 , L0045011	, L0045006 , L0045012	, L0045007 ,	, L0045008	, L0045009 ,	
L0045018	L0045013 , L0045019	, L0045014 , L0045020	, L0045015 ,	, L0045016	, L0045017 ,	
L0045026	L0045021 , L0045027	, L0045022 , L0045028	, L0045023 ,	, L0045024	, L0045025 ,	
L0045034	L0045029 , L0045035	, L0045030 , L0045036	, L0045031 ,	, L0045032	, L0045033 ,	
L0045042	L0045037 , L0045043	, L0045038 , L0045044	, L0045039 ,	, L0045040	, L0045041 ,	
L0045050	L0045045 , L0045051	, L0045046 , L0045052	, L0045047 ,	, L0045048	, L0045049 ,	
L0045058	L0045053 , L0045059	, L0045054 , L0045060	, L0045055 ,	, L0045056	, L0045057 ,	

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L0045066      L0045061      , L0045062      , L0045063      , L0045064      , L0045065      ,
, L0045067      , L0045068      ,

L0045074      L0045069      , L0045070      , L0045071      , L0045072      , L0045073      ,
, L0045075      , L0045076      ,

L0045082      L0045077      , L0045078      , L0045079      , L0045080      , L0045081      ,
, L0045083      , L0045084      ,

L0045090      L0045085      , L0045086      , L0045087      , L0045088      , L0045089      ,
, L0045091      , L0045092      ,

L0045098      L0045093      , L0045094      , L0045095      , L0045096      , L0045097      ,
, L0045099      , L0045100      ,

L0045106      L0045101      , L0045102      , L0045103      , L0045104      , L0045105      ,
, L0045107      , L0045108      ,
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES

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URBAN ID      URBAN POP      SOURCE IDs
-----      -
L0045114      L0045109      , L0045110      , L0045111      , L0045112      , L0045113      ,
, L0045115      , L0045116      ,

L0045122      L0045117      , L0045118      , L0045119      , L0045120      , L0045121      ,
, L0045123      , L0045124      ,

L0045130      L0045125      , L0045126      , L0045127      , L0045128      , L0045129      ,
, L0045131      , L0045132      ,

L0045138      L0045133      , L0045134      , L0045135      , L0045136      , L0045137      ,
, L0045139      , L0045140      ,

L0045146      L0045141      , L0045142      , L0045143      , L0045144      , L0045145      ,
, L0045147      , L0045148      ,

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SOL\_operations\_rev2.ADO

L0045154      L0045149      , L0045150      , L0045151      , L0045152      , L0045153      ,  
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 L0045162      L0045157      , L0045158      , L0045159      , L0045160      , L0045161      ,  
                  , L0045163      , L0045164      ,  
  
 L0045170      L0045165      , L0045166      , L0045167      , L0045168      , L0045169      ,  
                  , L0045171      , L0045172      ,  
  
 L0045178      L0045173      , L0045174      , L0045175      , L0045176      , L0045177      ,  
                  , L0045179      , L0045180      ,  
  
 L0045186      L0045181      , L0045182      , L0045183      , L0045184      , L0045185      ,  
                  , L0045187      , L0045188      ,  
  
 L0045194      L0045189      , L0045190      , L0045191      , L0045192      , L0045193      ,  
                  , L0045195      , L0045196      ,  
  
 L0045202      L0045197      , L0045198      , L0045199      , L0045200      , L0045201      ,  
                  , L0045203      , L0045204      ,  
  
 L0045210      L0045205      , L0045206      , L0045207      , L0045208      , L0045209      ,  
                  , L0045211      , L0045212      ,  
  
 L0045218      L0045213      , L0045214      , L0045215      , L0045216      , L0045217      ,  
                  , L0045219      , L0045220      ,  
  
 L0045226      L0045221      , L0045222      , L0045223      , L0045224      , L0045225      ,  
                  , L0045227      , L0045228      ,  
  
 L0045234      L0045229      , L0045230      , L0045231      , L0045232      , L0045233      ,  
                  , L0045235      , L0045236      ,  
  
 L0045242      L0045237      , L0045238      , L0045239      , L0045240      , L0045241      ,  
                  , L0045243      , L0045244      ,  
  
 L0045250      L0045245      , L0045246      , L0045247      , L0045248      , L0045249      ,  
                  , L0045251      , L0045252      ,

▲ \*\*\* AERMOD - VERSION 19191 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*      03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                  \*\*\*      17:50:42

\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

SOL\_operations\_rev2.ADO

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

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SOL\_operations\_rev2.ADO

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▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

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 \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

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\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

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\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

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 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
 (METERS)

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▲ \*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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Profile format: FREE

Surface station no.: 3179  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	
1.00		0.73	313.		7.9	279.2	2.0							
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	
1.00		0.80	342.		7.9	280.9	2.0							
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	
1.00		1.20	9.		7.9	281.4	2.0							
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	
1.00		0.94	21.		7.9	282.0	2.0							
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	
1.00		1.45	353.		7.9	279.9	2.0							
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	
1.00		1.38	325.		7.9	277.5	2.0							
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	
1.00		1.42	313.		7.9	281.4	2.0							
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	
0.53		1.23	19.		7.9	280.9	2.0							
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	
0.31		0.96	318.		7.9	287.5	2.0							
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	
0.24		0.63	244.		7.9	291.4	2.0							
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	
0.21		1.23	91.		7.9	296.4	2.0							
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	
0.20		1.60	90.		7.9	299.9	2.0							
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	
0.20		1.98	92.		7.9	302.0	2.0							
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	
0.21		1.50	73.		7.9	303.1	2.0							
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	
0.25		1.59	64.		7.9	303.1	2.0							
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	
0.34		2.61	92.		7.9	300.4	2.0							
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	
0.62		1.98	107.		7.9	295.4	2.0							
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	

SOL\_operations\_rev2.ADO

1.00	3.22	134.	7.9	291.4	2.0								
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74
1.00	1.43	37.	7.9	290.4	2.0								
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74
1.00	1.40	49.	7.9	287.0	2.0								
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74
1.00	1.57	26.	7.9	288.8	2.0								
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74
1.00	1.11	56.	7.9	284.9	2.0								
12	01	01	1	23	-11.5	0.141	-9.000	-9.000	-999.	127.	21.9	0.09	0.74
1.00	1.69	36.	7.9	282.0	2.0								
12	01	01	1	24	-16.9	0.172	-9.000	-9.000	-999.	171.	32.4	0.09	0.74
1.00	2.03	33.	7.9	279.9	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	313.	0.73	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

SOL\_operations\_rev2.ADO

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- - - - -
      438915.21    3754328.34    0.00001    438965.21
3754328.34      0.00001
      438815.21    3754378.34    0.00001    438865.21
3754378.34      0.00001
      438915.21    3754378.34    0.00001    438965.21
3754378.34      0.00001
      439015.21    3754378.34    0.00001    439065.21
3754378.34      0.00001
      439115.21    3754378.34    0.00001    438765.21
3754428.34      0.00001
      438815.21    3754428.34    0.00001    438865.21
3754428.34      0.00001
      438915.21    3754428.34    0.00001    438965.21
3754428.34      0.00001
      439015.21    3754428.34    0.00001    439065.21
3754428.34      0.00001
      439115.21    3754428.34    0.00001    438715.21
3754478.34      0.00001
      438765.21    3754478.34    0.00001    438815.21
3754478.34      0.00001
      438865.21    3754478.34    0.00001    438915.21
3754478.34      0.00001
      438965.21    3754478.34    0.00001    439015.21
3754478.34      0.00001
      439065.21    3754478.34    0.00001    439115.21
3754478.34      0.00001
      438715.21    3754528.34    0.00001    438765.21
3754528.34      0.00001
      438815.21    3754528.34    0.00001    438865.21
3754528.34      0.00001
      438915.21    3754528.34    0.00001    438965.21
3754528.34      0.00001
      439015.21    3754528.34    0.00001    439065.21
3754528.34      0.00001
      438715.21    3754578.34    0.00001    438765.21
3754578.34      0.00001
      438815.21    3754578.34    0.00001    438865.21
3754578.34      0.00001
      438915.21    3754578.34    0.00001    438965.21
3754578.34      0.00001
      439015.21    3754578.34    0.00001    438665.21
3754678.34      0.00001
      438665.21    3754728.34    0.00001    438715.21
3754728.34      0.00001
      438765.21    3754728.34    0.00001    438765.21
3754778.34      0.00001
      439165.21    3755128.34    0.00001    439915.21

```

SOL\_operations\_rev2.ADO

3757928.34	0.00004			
	440215.21	3758078.34	0.00005	447565.21
3759878.34	0.00003			
	439815.21	3759928.34	0.00035	439815.21
3759978.34	0.00035			
	439815.21	3760028.34	0.00036	439815.21
3760078.34	0.00036			
	439815.21	3760128.34	0.00037	445265.21
3760128.34	0.00012			
	445315.21	3760128.34	0.00011	445365.21
3760128.34	0.00010			
	445415.21	3760128.34	0.00010	445465.21
3760128.34	0.00009			
	445515.21	3760128.34	0.00009	445565.21
3760128.34	0.00009			
	439815.21	3760178.34	0.00038	445265.21
3760178.34	0.00013			
	445315.21	3760178.34	0.00012	445365.21
3760178.34	0.00011			
	445415.21	3760178.34	0.00011	445465.21
3760178.34	0.00010			
	445515.21	3760178.34	0.00010	445565.21
3760178.34	0.00009			
	445265.21	3760228.34	0.00015	445315.21
3760228.34	0.00014			
	445365.21	3760228.34	0.00013	445415.21
3760228.34	0.00012			
	445465.21	3760228.34	0.00011	445515.21
3760228.34	0.00010			
	445565.21	3760228.34	0.00010	445265.21
3760278.34	0.00018			
	445315.21	3760278.34	0.00016	445365.21
3760278.34	0.00014			

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL      INCLUDING SOURCE(S):      L0040784      ,      L0040785  
   , L0040786      ,      L0040787      ,      L0040788      ,  
                   ,      L0040789      ,      L0040790      ,      L0040791      ,      L0040792      ,      L0040793  
   , L0040794      ,      L0040795      ,      L0040796      ,  
                   ,      L0040797      ,      L0040798      ,      L0040799      ,      L0040800      ,      L0040801

SOL\_operations\_rev2.ADO

, L0040802 , L0040803 , L0040804 ,  
 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
445415.21	3760278.34	0.00013	445465.21
3760278.34	0.00012		
445515.21	3760278.34	0.00011	445565.21
3760278.34	0.00010		
445265.21	3760328.34	0.00023	445315.21
3760328.34	0.00019		
445365.21	3760328.34	0.00016	445415.21
3760328.34	0.00014		
445465.21	3760328.34	0.00013	445515.21
3760328.34	0.00012		
445565.21	3760328.34	0.00011	445265.21
3760378.34	0.00030		
445315.21	3760378.34	0.00022	445365.21
3760378.34	0.00018		
445415.21	3760378.34	0.00015	445465.21
3760378.34	0.00014		
445515.21	3760378.34	0.00012	445565.21
3760378.34	0.00011		
444715.21	3760428.34	0.00114	444765.21
3760428.34	0.00109		
444815.21	3760428.34	0.00105	444865.21
3760428.34	0.00101		
444915.21	3760428.34	0.00099	444965.21
3760428.34	0.00096		
445015.21	3760428.34	0.00093	445065.21
3760428.34	0.00089		
445115.21	3760428.34	0.00084	445165.21
3760428.34	0.00075		
445265.21	3760428.34	0.00032	445315.21
3760428.34	0.00023		
445365.21	3760428.34	0.00019	445415.21
3760428.34	0.00016		
445465.21	3760428.34	0.00014	445515.21
3760428.34	0.00012		



SOL\_operations\_rev2.ADO

445565.21	3760428.34	0.00011	444665.21
3760478.34	0.00052		
444715.21	3760478.34	0.00051	444765.21
3760478.34	0.00051		
444815.21	3760478.34	0.00049	444865.21
3760478.34	0.00048		
444915.21	3760478.34	0.00047	444965.21
3760478.34	0.00046		
445015.21	3760478.34	0.00045	445065.21
3760478.34	0.00043		
445115.21	3760478.34	0.00040	445165.21
3760478.34	0.00036		
445265.21	3760478.34	0.00026	445315.21
3760478.34	0.00021		
445365.21	3760478.34	0.00018	445415.21
3760478.34	0.00016		
445465.21	3760478.34	0.00014	445515.21
3760478.34	0.00012		
445565.21	3760478.34	0.00011	443434.87
3760505.41	0.00083		
443519.04	3760505.41	0.00083	443548.29
3760505.41	0.00082		
443736.51	3760500.50	0.00089	443823.40
3760503.23	0.00085		
444665.21	3760528.34	0.00035	444715.21
3760528.34	0.00035		
444765.21	3760528.34	0.00034	444815.21
3760528.34	0.00034		
444865.21	3760528.34	0.00033	444915.21
3760528.34	0.00032		
444965.21	3760528.34	0.00031	445015.21
3760528.34	0.00030		
445065.21	3760528.34	0.00029	445115.21
3760528.34	0.00027		
445165.21	3760528.34	0.00025	445265.21
3760528.34	0.00020		
445315.21	3760528.34	0.00018	445365.21
3760528.34	0.00016		
445415.21	3760528.34	0.00015	445465.21
3760528.34	0.00013		
445515.21	3760528.34	0.00012	445565.21
3760528.34	0.00011		
444665.21	3760578.34	0.00027	444715.21
3760578.34	0.00027		
444765.21	3760578.34	0.00027	444815.21
3760578.34	0.00026		

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\*\*\* 17:50:42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
444865.21	3760578.34	0.00026	444915.21
3760578.34	0.00025		
444965.21	3760578.34	0.00024	445015.21
3760578.34	0.00023		
445065.21	3760578.34	0.00023	445115.21
3760578.34	0.00021		
445165.21	3760578.34	0.00020	445265.21
3760578.34	0.00017		
445315.21	3760578.34	0.00016	445365.21
3760578.34	0.00015		
445415.21	3760578.34	0.00014	445465.21
3760578.34	0.00013		
445515.21	3760578.34	0.00012	445565.21
3760578.34	0.00011		
444665.21	3760628.34	0.00023	444715.21
3760628.34	0.00022		
444765.21	3760628.34	0.00022	444815.21
3760628.34	0.00022		
444865.21	3760628.34	0.00021	444915.21
3760628.34	0.00021		
444965.21	3760628.34	0.00020	445015.21

SOL\_operations\_rev2.ADO

3760628.34	0.00019			
445065.21	3760628.34	0.00019		445115.21
3760628.34	0.00018			
445165.21	3760628.34	0.00017		445265.21
3760628.34	0.00015			
445315.21	3760628.34	0.00014		445365.21
3760628.34	0.00013			
445415.21	3760628.34	0.00013		445465.21
3760628.34	0.00012			
445515.21	3760628.34	0.00011		445565.21
3760628.34	0.00010			
444665.21	3760678.34	0.00020		444715.21
3760678.34	0.00019			
444765.21	3760678.34	0.00019		444815.21
3760678.34	0.00019			
444865.21	3760678.34	0.00018		444915.21
3760678.34	0.00018			
444965.21	3760678.34	0.00017		445015.21
3760678.34	0.00017			
445065.21	3760678.34	0.00016		445115.21
3760678.34	0.00016			
445165.21	3760678.34	0.00015		445265.21
3760678.34	0.00014			
445315.21	3760678.34	0.00013		445365.21
3760678.34	0.00012			
445415.21	3760678.34	0.00012		445465.21
3760678.34	0.00011			
445515.21	3760678.34	0.00011		445565.21
3760678.34	0.00010			
444665.21	3760728.34	0.00018		444715.21
3760728.34	0.00017			
444765.21	3760728.34	0.00017		444815.21
3760728.34	0.00017			
444865.21	3760728.34	0.00016		444915.21
3760728.34	0.00016			
444965.21	3760728.34	0.00015		445015.21
3760728.34	0.00015			
445065.21	3760728.34	0.00014		445115.21
3760728.34	0.00014			
445165.21	3760728.34	0.00013		445265.21
3760728.34	0.00012			
445315.21	3760728.34	0.00012		445365.21
3760728.34	0.00011			
445415.21	3760728.34	0.00011		445465.21
3760728.34	0.00010			
445515.21	3760728.34	0.00010		445565.21
3760728.34	0.00010			
444665.21	3760778.34	0.00016		444715.21

SOL\_operations\_rev2.ADO

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3760778.34      0.00016
      444765.21    3760778.34      0.00015      444815.21
3760778.34      0.00015
      444865.21    3760778.34      0.00015      444915.21
3760778.34      0.00014
      444965.21    3760778.34      0.00014      445015.21
3760778.34      0.00014
      445065.21    3760778.34      0.00013      445115.21
3760778.34      0.00013
      445165.21    3760778.34      0.00012      445265.21
3760778.34      0.00011

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^ *** AERMOD - VERSION 19191 ***      *** C:\Lakes\AERMOD
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: ALL \*\*\*

```

INCLUDING SOURCE(S):      L0040784      , L0040785
, L0040786      , L0040787      , L0040788      ,
      L0040789      , L0040790      , L0040791      , L0040792      , L0040793
, L0040794      , L0040795      , L0040796      ,
      L0040797      , L0040798      , L0040799      , L0040800      , L0040801
, L0040802      , L0040803      , L0040804      ,
      L0040805      , L0040806      , L0040807      , L0040808      , L0040809
, L0040810      , L0040811      , . . .      ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

```

      X-COORD (M)  Y-COORD (M)      CONC      X-COORD (M)
Y-COORD (M)      CONC
-----
      445315.21    3760778.34      0.00011      445365.21
3760778.34      0.00011
      445415.21    3760778.34      0.00010      445465.21
3760778.34      0.00010
      445515.21    3760778.34      0.00010      445565.21
3760778.34      0.00009
      439615.21    3760878.34      0.00020      439665.21
3760878.34      0.00023

```

SOL\_operations\_rev2.ADO

439715.21	3760878.34	0.00027	439765.21
3760878.34	0.00034		
439815.21	3760878.34	0.00046	439865.21
3760878.34	0.00083		
439615.21	3760928.34	0.00020	439665.21
3760928.34	0.00023		
439715.21	3760928.34	0.00027	439765.21
3760928.34	0.00033		
439815.21	3760928.34	0.00046	439865.21
3760928.34	0.00083		
439615.21	3760978.34	0.00020	439665.21
3760978.34	0.00023		
439715.21	3760978.34	0.00027	439765.21
3760978.34	0.00033		
439815.21	3760978.34	0.00045	439865.21
3760978.34	0.00083		
439615.21	3761028.34	0.00020	439665.21
3761028.34	0.00023		
439715.21	3761028.34	0.00027	439765.21
3761028.34	0.00033		
439815.21	3761028.34	0.00045	439865.21
3761028.34	0.00082		
442026.18	3761011.86	0.00070	439615.21
3761078.34	0.00020		
439665.21	3761078.34	0.00022	439715.21
3761078.34	0.00026		
439765.21	3761078.34	0.00033	439815.21
3761078.34	0.00045		
439865.21	3761078.34	0.00082	439615.21
3761128.34	0.00019		
439665.21	3761128.34	0.00022	439715.21
3761128.34	0.00026		
439765.21	3761128.34	0.00032	439815.21
3761128.34	0.00044		
439865.21	3761128.34	0.00082	439615.21
3761178.34	0.00019		
439665.21	3761178.34	0.00022	439715.21
3761178.34	0.00026		
439765.21	3761178.34	0.00032	439815.21
3761178.34	0.00044		
439865.21	3761178.34	0.00082	439615.21
3761228.34	0.00019		
439665.21	3761228.34	0.00022	439715.21
3761228.34	0.00026		
439765.21	3761228.34	0.00032	439815.21
3761228.34	0.00044		
439865.21	3761228.34	0.00081	440165.21
3761228.34	0.00030		

SOL\_operations\_rev2.ADO

440215.21	3761228.34	0.00028	440265.21
3761228.34	0.00027		
440615.21	3761228.34	0.00030	440665.21
3761228.34	0.00032		
440715.21	3761228.34	0.00036	442027.40
3761229.63	0.00064		
442665.21	3761228.34	0.00023	442865.21
3761228.34	0.00020		
442965.21	3761228.34	0.00018	443065.21
3761228.34	0.00017		
443265.21	3761228.34	0.00016	439615.21
3761278.34	0.00019		
439665.21	3761278.34	0.00022	439715.21
3761278.34	0.00026		
439765.21	3761278.34	0.00032	439815.21
3761278.34	0.00044		
439865.21	3761278.34	0.00081	440263.68
3761292.14	0.00026		
440322.11	3761293.68	0.00025	440565.21
3761299.81	0.00026		
440756.01	3761299.04	0.00034	440968.28
3761294.45	0.00049		
439615.21	3761328.34	0.00019	439665.21
3761328.34	0.00021		

^ \*\*\* AERMOD - VERSION 19191 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc    \*\*\*    03/09/21  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL    INCLUDING SOURCE(S):    L0040784    ,    L0040785  
   , L0040786    ,    L0040787    ,    L0040788    ,  
                                  L0040789    ,    L0040790    ,    L0040791    ,    L0040792    ,    L0040793  
   , L0040794    ,    L0040795    ,    L0040796    ,  
                                  L0040797    ,    L0040798    ,    L0040799    ,    L0040800    ,    L0040801  
   , L0040802    ,    L0040803    ,    L0040804    ,  
                                  L0040805    ,    L0040806    ,    L0040807    ,    L0040808    ,    L0040809  
   , L0040810    ,    L0040811    ,    . . .    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10    IN MICROGRAMS/M\*\*3

\*\*

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Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3761328.34	439715.21	3761328.34	0.00025	439765.21
3761328.34	439815.21	3761328.34	0.00043	439865.21
3761328.34	440862.15	3761300.73	0.00041	442015.21
3761378.34	439615.21	3761378.34	0.00019	439665.21
3761378.34	439715.21	3761378.34	0.00025	439765.21
3761378.34	439815.21	3761378.34	0.00043	439865.21
3761428.34	441165.21	3761378.34	0.00044	439615.21
3761428.34	439665.21	3761428.34	0.00021	439715.21
3761428.34	439765.21	3761428.34	0.00031	439815.21
3761428.34	439865.21	3761428.34	0.00079	439948.61
3761428.34	441215.21	3761428.34	0.00038	442015.21
3761478.34	439615.21	3761478.34	0.00018	439665.21
3761478.34	439715.21	3761478.34	0.00025	439765.21
3761478.34	439815.21	3761478.34	0.00042	439865.21
3761478.34	440415.21	3761478.34	0.00022	441965.21
3761528.34	439615.21	3761528.34	0.00018	439665.21
3761528.34	439715.21	3761528.34	0.00024	439765.21
3761528.34	439815.21	3761528.34	0.00042	439865.21
3761528.34	439933.91	3761525.28	0.00090	441965.21
3761528.34	442015.21	3761528.34	0.00025	442065.21
3761578.34	439615.21	3761578.34	0.00018	439665.21
3761578.34	439715.21	3761578.34	0.00024	439765.21

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3761578.34	0.00030			
	439815.21	3761578.34	0.00042	439865.21
3761578.34	0.00077			
	439948.29	3761730.30	0.00074	439865.21
3761928.34	0.00073			
	439865.21	3761978.34	0.00073	439937.22
3761960.11	0.00085			
	439938.52	3762030.30	0.00083	439941.98
3762097.71	0.00079			
	440115.21	3762128.34	0.00026	440165.21
3762128.34	0.00022			
	440215.21	3762128.34	0.00020	439615.21
3762528.34	0.00011			
	439665.21	3762528.34	0.00013	439715.21
3762528.34	0.00016			
	439765.21	3762528.34	0.00021	439965.21
3762528.34	0.00053			
	439615.21	3762578.34	0.00010	439665.21
3762578.34	0.00012			
	439715.21	3762578.34	0.00015	439765.21
3762578.34	0.00019			
	439815.21	3762578.34	0.00029	439865.21
3762578.34	0.00062			
	439965.21	3762578.34	0.00051	439615.21
3762628.34	0.00009			
	439665.21	3762628.34	0.00011	439715.21
3762628.34	0.00013			
	439765.21	3762628.34	0.00017	439815.21
3762628.34	0.00026			
	439865.21	3762628.34	0.00057	439965.21
3762628.34	0.00046			
	439615.21	3762678.34	0.00009	439665.21
3762678.34	0.00010			
	439715.21	3762678.34	0.00011	439765.21
3762678.34	0.00014			
	439815.21	3762678.34	0.00020	439965.21
3762678.34	0.00035			

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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL      INCLUDING SOURCE(S):      L0040784      ,      L0040785



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, L0040786      , L0040787      , L0040788      ,
                  L0040789      , L0040790      , L0040791      , L0040792      , L0040793
, L0040794      , L0040795      , L0040796      ,
                  L0040797      , L0040798      , L0040799      , L0040800      , L0040801
, L0040802      , L0040803      , L0040804      ,
                  L0040805      , L0040806      , L0040807      , L0040808      , L0040809
, L0040810      , L0040811      , . . .

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
439865.21	3762928.34	0.00006	439615.21
3763078.34	0.00004		
439665.21	3763078.34	0.00004	439715.21
3763078.34	0.00004		
439765.21	3763078.34	0.00004	439815.21
3763078.34	0.00004		
439865.21	3763078.34	0.00004	439615.21
3763128.34	0.00004		
439665.21	3763128.34	0.00004	439715.21
3763128.34	0.00004		
439765.21	3763128.34	0.00004	439815.21
3763128.34	0.00004		
439865.21	3763128.34	0.00004	439615.21
3763178.34	0.00003		
439665.21	3763178.34	0.00003	439715.21
3763178.34	0.00003		
439765.21	3763178.34	0.00003	439815.21
3763178.34	0.00004		
439865.21	3763178.34	0.00004	439615.21
3763228.34	0.00003		
439665.21	3763228.34	0.00003	439715.21
3763228.34	0.00003		
439765.21	3763228.34	0.00003	439815.21
3763228.34	0.00003		
439865.21	3763228.34	0.00003	439615.21
3763278.34	0.00003		
439665.21	3763278.34	0.00003	439715.21
3763278.34	0.00003		
439765.21	3763278.34	0.00003	439815.21
3763278.34	0.00003		

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439865.21	3763278.34	0.00003	440165.21
3763728.34	0.00002		
440215.21	3763728.34	0.00002	442023.45
3761048.68	0.00071		
445603.81	3760226.33	0.00009	445653.81
3760226.33	0.00009		
445603.81	3760276.33	0.00010	445653.81
3760276.33	0.00009		
445603.81	3760326.33	0.00010	445653.81
3760326.33	0.00009		
445603.81	3760376.33	0.00010	445653.81
3760376.33	0.00010		
445603.81	3760426.33	0.00011	445653.81
3760426.33	0.00010		
445603.81	3760476.33	0.00011	445653.81
3760476.33	0.00010		
445603.81	3760526.33	0.00011	445653.81
3760526.33	0.00010		
445603.81	3760576.33	0.00010	445653.81
3760576.33	0.00010		
445603.81	3760626.33	0.00010	445653.81
3760626.33	0.00010		
445603.81	3760676.33	0.00010	445653.81
3760676.33	0.00009		
445603.81	3760726.33	0.00009	445653.81
3760726.33	0.00009		
445603.81	3760776.33	0.00009	445653.81
3760776.33	0.00009		

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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* THE    1ST HIGHEST    1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL      INCLUDING SOURCE(S):      L0040784      , L0040785  
   , L0040786      , L0040787      , L0040788      ,  
                                  L0040789      , L0040790      , L0040791      , L0040792      , L0040793  
   , L0040794      , L0040795      , L0040796      ,  
                                  L0040797      , L0040798      , L0040799      , L0040800      , L0040801  
   , L0040802      , L0040803      , L0040804      ,  
                                  L0040805      , L0040806      , L0040807      , L0040808      , L0040809  
   , L0040810      , L0040811      , . . .      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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		** CONC OF PM <sub>10</sub>		IN MICROGRAMS/M**3
**				
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
438915.21	3754328.34	0.00016	(16021502)	438965.21
3754328.34	0.00016	(16021502)		
438815.21	3754378.34	0.00016	(16021502)	438865.21
3754378.34	0.00016	(16021502)		
438915.21	3754378.34	0.00016	(16021502)	438965.21
3754378.34	0.00016	(16021502)		
439015.21	3754378.34	0.00016	(14050102)	439065.21
3754378.34	0.00016	(14050102)		
439115.21	3754378.34	0.00016	(14050102)	438765.21
3754428.34	0.00016	(14030807)		
438815.21	3754428.34	0.00016	(16021502)	438865.21
3754428.34	0.00016	(16021502)		
438915.21	3754428.34	0.00016	(16021502)	438965.21
3754428.34	0.00016	(16021502)		
439015.21	3754428.34	0.00016	(16021502)	439065.21
3754428.34	0.00016	(14050102)		
439115.21	3754428.34	0.00016	(14050102)	438715.21
3754478.34	0.00016	(14030807)		
438765.21	3754478.34	0.00016	(13022722)	438815.21
3754478.34	0.00016	(16021502)		
438865.21	3754478.34	0.00016	(16021502)	438915.21
3754478.34	0.00016	(16021502)		
438965.21	3754478.34	0.00016	(16021502)	439015.21
3754478.34	0.00016	(16021502)		
439065.21	3754478.34	0.00016	(14050102)	439115.21
3754478.34	0.00016	(14050102)		
438715.21	3754528.34	0.00016	(13122501)	438765.21
3754528.34	0.00016	(13022722)		
438815.21	3754528.34	0.00016	(16021502)	438865.21
3754528.34	0.00016	(16021502)		
438915.21	3754528.34	0.00016	(16021502)	438965.21
3754528.34	0.00016	(16021502)		
439015.21	3754528.34	0.00016	(16021502)	439065.21
3754528.34	0.00016	(14050102)		
438715.21	3754578.34	0.00016	(13101419)	438765.21
3754578.34	0.00016	(13022722)		
438815.21	3754578.34	0.00016	(13022722)	438865.21
3754578.34	0.00016	(16021502)		
438915.21	3754578.34	0.00016	(16021502)	438965.21

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3754578.34	0.00016	(16021502)		
439015.21	3754578.34	0.00016	(16021502)	438665.21
3754678.34	0.00017	(13101419)		
438665.21	3754728.34	0.00017	(13101419)	438715.21
3754728.34	0.00017	(13101419)		
438765.21	3754728.34	0.00017	(13101419)	438765.21
3754778.34	0.00017	(13101419)		
439165.21	3755128.34	0.00017	(16021502)	439915.21
3757928.34	0.00033	(14100421)		
440215.21	3758078.34	0.00035	(13101419)	447565.21
3759878.34	0.00033	(15072521)		
439815.21	3759928.34	0.00140	(13050219)	439815.21
3759978.34	0.00142	(16101918)		
439815.21	3760028.34	0.00145	(15110618)	439815.21
3760078.34	0.00149	(15060824)		
439815.21	3760128.34	0.00153	(12100121)	445265.21
3760128.34	0.00072	(16060906)		
445315.21	3760128.34	0.00072	(16060906)	445365.21
3760128.34	0.00071	(16060906)		
445415.21	3760128.34	0.00071	(15082519)	445465.21
3760128.34	0.00071	(15082519)		
445515.21	3760128.34	0.00070	(15082519)	445565.21
3760128.34	0.00070	(15082519)		
439815.21	3760178.34	0.00160	(12100121)	445265.21
3760178.34	0.00080	(15082519)		
445315.21	3760178.34	0.00079	(15082519)	445365.21
3760178.34	0.00079	(15082519)		
445415.21	3760178.34	0.00079	(15082519)	445465.21
3760178.34	0.00078	(15082519)		
445515.21	3760178.34	0.00077	(15082519)	445565.21
3760178.34	0.00076	(15082519)		
445265.21	3760228.34	0.00091	(15082519)	445315.21
3760228.34	0.00090	(15082519)		
445365.21	3760228.34	0.00089	(15082519)	445415.21
3760228.34	0.00088	(15082519)		
445465.21	3760228.34	0.00086	(15082519)	445515.21
3760228.34	0.00083	(15082519)		
445565.21	3760228.34	0.00081	(15082519)	445265.21
3760278.34	0.00106	(15082519)		
445315.21	3760278.34	0.00105	(15082519)	445365.21
3760278.34	0.00102	(15082519)		

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SOL\_operations\_rev2.ADO

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

**		** CONC OF PM <sub>10</sub> IN MICROGRAMS/M**3		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
445415.21	3760278.34	0.00098	(15082519)	445465.21
3760278.34	0.00094	(12071219)		
445515.21	3760278.34	0.00090	(12071219)	445565.21
3760278.34	0.00086	(12071219)		
445265.21	3760328.34	0.00134	(15082519)	445315.21
3760328.34	0.00127	(13090520)		
445365.21	3760328.34	0.00118	(16062406)	445415.21
3760328.34	0.00109	(16062406)		
445465.21	3760328.34	0.00102	(16062406)	445515.21
3760328.34	0.00095	(16062406)		
445565.21	3760328.34	0.00089	(16062406)	445265.21
3760378.34	0.00177	(15091022)		
445315.21	3760378.34	0.00146	(15091022)	445365.21
3760378.34	0.00127	(15091022)		
445415.21	3760378.34	0.00114	(15091022)	445465.21
3760378.34	0.00104	(15091022)		
445515.21	3760378.34	0.00097	(14062606)	445565.21
3760378.34	0.00090	(14062606)		
444715.21	3760428.34	0.00330	(13041207)	444765.21
3760428.34	0.00316	(13041207)		
444815.21	3760428.34	0.00306	(13041207)	444865.21
3760428.34	0.00296	(13041207)		
444915.21	3760428.34	0.00290	(13041207)	444965.21
3760428.34	0.00286	(13041207)		
445015.21	3760428.34	0.00279	(13041207)	445065.21
3760428.34	0.00273	(13041207)		

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445115.21	3760428.34	0.00266	(13041207)	445165.21
3760428.34	0.00258	(13041207)		
445265.21	3760428.34	0.00157	(15082823)	445315.21
3760428.34	0.00135	(12090821)		
445365.21	3760428.34	0.00120	(12090821)	445415.21
3760428.34	0.00109	(14070523)		
445465.21	3760428.34	0.00100	(14070523)	445515.21
3760428.34	0.00093	(14070523)		
445565.21	3760428.34	0.00088	(14070523)	444665.21
3760478.34	0.00135	(14012017)		
444715.21	3760478.34	0.00135	(14012017)	444765.21
3760478.34	0.00133	(14012017)		
444815.21	3760478.34	0.00131	(14012017)	444865.21
3760478.34	0.00131	(14012017)		
444915.21	3760478.34	0.00129	(14012017)	444965.21
3760478.34	0.00127	(14012017)		
445015.21	3760478.34	0.00125	(14012017)	445065.21
3760478.34	0.00122	(15082823)		
445115.21	3760478.34	0.00120	(15082823)	445165.21
3760478.34	0.00117	(15082823)		
445265.21	3760478.34	0.00110	(15082521)	445315.21
3760478.34	0.00107	(15082521)		
445365.21	3760478.34	0.00102	(16073023)	445415.21
3760478.34	0.00097	(16073023)		
445465.21	3760478.34	0.00091	(16073023)	445515.21
3760478.34	0.00086	(12090821)		
445565.21	3760478.34	0.00083	(12090821)	443434.87
3760505.41	0.00217	(13041207)		
443519.04	3760505.41	0.00216	(13041207)	443548.29
3760505.41	0.00216	(13041207)		
443736.51	3760500.50	0.00241	(13041207)	443823.40
3760503.23	0.00231	(13041207)		
444665.21	3760528.34	0.00103	(15082823)	444715.21
3760528.34	0.00103	(15082823)		
444765.21	3760528.34	0.00101	(15082823)	444815.21
3760528.34	0.00100	(15082823)		
444865.21	3760528.34	0.00099	(15082823)	444915.21
3760528.34	0.00098	(15082823)		
444965.21	3760528.34	0.00097	(15082823)	445015.21
3760528.34	0.00096	(15082823)		
445065.21	3760528.34	0.00094	(15082823)	445115.21
3760528.34	0.00093	(15082823)		
445165.21	3760528.34	0.00091	(15082521)	445265.21
3760528.34	0.00088	(15082521)		
445315.21	3760528.34	0.00086	(15082521)	445365.21
3760528.34	0.00085	(15082521)		
445415.21	3760528.34	0.00083	(15082521)	445465.21
3760528.34	0.00081	(15101503)		

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445515.21	3760528.34	0.00079	(16073023)	445565.21
3760528.34	0.00076	(16073023)		
444665.21	3760578.34	0.00087	(15082823)	444715.21
3760578.34	0.00088	(15082823)		
444765.21	3760578.34	0.00086	(15082823)	444815.21
3760578.34	0.00085	(15082823)		

^ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M<sup>3</sup>

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
444865.21	3760578.34	0.00084	(15082823)	444915.21
3760578.34	0.00083	(15082823)		
444965.21	3760578.34	0.00082	(16073102)	445015.21
3760578.34	0.00081	(16073102)		
445065.21	3760578.34	0.00080	(15082521)	445115.21
3760578.34	0.00079	(15082521)		
445165.21	3760578.34	0.00078	(15082521)	445265.21
3760578.34	0.00075	(15082521)		
445315.21	3760578.34	0.00074	(15082521)	445365.21
3760578.34	0.00074	(15082521)		
445415.21	3760578.34	0.00073	(15082521)	445465.21
3760578.34	0.00072	(15082521)		
445515.21	3760578.34	0.00071	(15082521)	445565.21

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3760578.34	0.00070	(15082521)		
444665.21	3760628.34	0.00078	(15082521)	444715.21
3760628.34	0.00078	(16073102)		
444765.21	3760628.34	0.00077	(16073102)	444815.21
3760628.34	0.00076	(16073102)		
444865.21	3760628.34	0.00075	(16073102)	444915.21
3760628.34	0.00074	(16073102)		
444965.21	3760628.34	0.00073	(15082521)	445015.21
3760628.34	0.00073	(15082521)		
445065.21	3760628.34	0.00072	(15082521)	445115.21
3760628.34	0.00071	(15082521)		
445165.21	3760628.34	0.00070	(15082521)	445265.21
3760628.34	0.00068	(15082521)		
445315.21	3760628.34	0.00067	(15082521)	445365.21
3760628.34	0.00066	(15082521)		
445415.21	3760628.34	0.00066	(15082521)	445465.21
3760628.34	0.00065	(15082521)		
445515.21	3760628.34	0.00065	(15082521)	445565.21
3760628.34	0.00064	(15082521)		
444665.21	3760678.34	0.00072	(15082521)	444715.21
3760678.34	0.00072	(15082521)		
444765.21	3760678.34	0.00071	(15082521)	444815.21
3760678.34	0.00070	(15082521)		
444865.21	3760678.34	0.00069	(15082521)	444915.21
3760678.34	0.00069	(15082521)		
444965.21	3760678.34	0.00068	(15082521)	445015.21
3760678.34	0.00067	(15082521)		
445065.21	3760678.34	0.00066	(15082521)	445115.21
3760678.34	0.00066	(15082521)		
445165.21	3760678.34	0.00064	(15082521)	445265.21
3760678.34	0.00063	(15082521)		
445315.21	3760678.34	0.00062	(15082521)	445365.21
3760678.34	0.00062	(15082521)		
445415.21	3760678.34	0.00061	(15082521)	445465.21
3760678.34	0.00061	(15082521)		
445515.21	3760678.34	0.00060	(15082521)	445565.21
3760678.34	0.00060	(15082521)		
444665.21	3760728.34	0.00067	(15082521)	444715.21
3760728.34	0.00068	(15082521)		
444765.21	3760728.34	0.00067	(15082521)	444815.21
3760728.34	0.00066	(15082521)		
444865.21	3760728.34	0.00065	(15082521)	444915.21
3760728.34	0.00064	(15082521)		
444965.21	3760728.34	0.00063	(15082521)	445015.21
3760728.34	0.00063	(15082521)		
445065.21	3760728.34	0.00062	(15082521)	445115.21
3760728.34	0.00062	(15082521)		
445165.21	3760728.34	0.00061	(15082521)	445265.21



SOL\_operations\_rev2.ADO

3760728.34	0.00059	(15082521)		
445315.21	3760728.34	0.00059	(15082521)	445365.21
3760728.34	0.00058	(15082521)		
445415.21	3760728.34	0.00058	(15082521)	445465.21
3760728.34	0.00059	(15082521)		
445515.21	3760728.34	0.00057	(15082521)	445565.21
3760728.34	0.00057	(15082521)		
444665.21	3760778.34	0.00063	(15082521)	444715.21
3760778.34	0.00065	(15082521)		
444765.21	3760778.34	0.00064	(15082521)	444815.21
3760778.34	0.00063	(15082521)		
444865.21	3760778.34	0.00062	(15082521)	444915.21
3760778.34	0.00062	(15082521)		
444965.21	3760778.34	0.00061	(15082521)	445015.21
3760778.34	0.00061	(15082521)		
445065.21	3760778.34	0.00060	(15082521)	445115.21
3760778.34	0.00059	(15082521)		
445165.21	3760778.34	0.00058	(15082521)	445265.21
3760778.34	0.00057	(15082521)		

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 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

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SOL\_operations\_rev2.ADO

445315.21	3760778.34	0.00056	(15082521)	445365.21
3760778.34	0.00056	(15082521)		
445415.21	3760778.34	0.00056	(15082521)	445465.21
3760778.34	0.00056	(15082521)		
445515.21	3760778.34	0.00056	(15082521)	445565.21
3760778.34	0.00055	(15082521)		
439615.21	3760878.34	0.00121	(15051306)	439665.21
3760878.34	0.00129	(15051306)		
439715.21	3760878.34	0.00138	(15051306)	439765.21
3760878.34	0.00152	(15051306)		
439815.21	3760878.34	0.00175	(15051306)	439865.21
3760878.34	0.00273	(12100607)		
439615.21	3760928.34	0.00120	(15051306)	439665.21
3760928.34	0.00127	(15051306)		
439715.21	3760928.34	0.00137	(15051306)	439765.21
3760928.34	0.00151	(15051306)		
439815.21	3760928.34	0.00173	(15051306)	439865.21
3760928.34	0.00272	(12100607)		
439615.21	3760978.34	0.00118	(13122517)	439665.21
3760978.34	0.00125	(13122517)		
439715.21	3760978.34	0.00135	(15051306)	439765.21
3760978.34	0.00149	(15051306)		
439815.21	3760978.34	0.00171	(15051306)	439865.21
3760978.34	0.00271	(12100607)		
439615.21	3761028.34	0.00118	(13122517)	439665.21
3761028.34	0.00125	(13122517)		
439715.21	3761028.34	0.00134	(13122517)	439765.21
3761028.34	0.00147	(13122517)		
439815.21	3761028.34	0.00170	(16092524)	439865.21
3761028.34	0.00270	(12100607)		
442026.18	3761011.86	0.00186	(15082520)	439615.21
3761078.34	0.00117	(13122517)		
439665.21	3761078.34	0.00124	(13122517)	439715.21
3761078.34	0.00133	(13122517)		
439765.21	3761078.34	0.00146	(13122517)	439815.21
3761078.34	0.00170	(16092524)		
439865.21	3761078.34	0.00269	(12100607)	439615.21
3761128.34	0.00115	(13122517)		
439665.21	3761128.34	0.00122	(13122517)	439715.21
3761128.34	0.00132	(13122517)		
439765.21	3761128.34	0.00145	(16092524)	439815.21
3761128.34	0.00169	(16092524)		
439865.21	3761128.34	0.00269	(12100607)	439615.21
3761178.34	0.00114	(13121117)		
439665.21	3761178.34	0.00121	(13121117)	439715.21
3761178.34	0.00130	(13121117)		
439765.21	3761178.34	0.00143	(16092524)	439815.21
3761178.34	0.00169	(12081723)		

SOL\_operations\_rev2.ADO

439865.21	3761178.34	0.00268	(12100607)	439615.21
3761228.34	0.00113	(13121117)		
439665.21	3761228.34	0.00121	(15063019)	439715.21
3761228.34	0.00130	(15063019)		
439765.21	3761228.34	0.00143	(15063019)	439815.21
3761228.34	0.00168	(12081723)		
439865.21	3761228.34	0.00267	(12100607)	440165.21
3761228.34	0.00113	(15063019)		
440215.21	3761228.34	0.00115	(15063019)	440265.21
3761228.34	0.00118	(15063019)		
440615.21	3761228.34	0.00151	(15090919)	440665.21
3761228.34	0.00156	(15090919)		
440715.21	3761228.34	0.00161	(15090919)	442027.40
3761229.63	0.00217	(14101507)		
442665.21	3761228.34	0.00113	(12092020)	442865.21
3761228.34	0.00103	(15101507)		
442965.21	3761228.34	0.00099	(15101507)	443065.21
3761228.34	0.00097	(15101507)		
443265.21	3761228.34	0.00094	(15082922)	439615.21
3761278.34	0.00114	(15063019)		
439665.21	3761278.34	0.00121	(15063019)	439715.21
3761278.34	0.00130	(15063019)		
439765.21	3761278.34	0.00143	(15063019)	439815.21
3761278.34	0.00168	(12081723)		
439865.21	3761278.34	0.00266	(12100607)	440263.68
3761292.14	0.00112	(15063019)		
440322.11	3761293.68	0.00115	(15063019)	440565.21
3761299.81	0.00132	(15090919)		
440756.01	3761299.04	0.00150	(16102418)	440968.28
3761294.45	0.00183	(14111508)		
439615.21	3761328.34	0.00113	(15063019)	439665.21
3761328.34	0.00120	(15063019)		

^ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,

, L0040810 , L0040811 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
439715.21	3761328.34	0.00130	(15063019)	439765.21
3761328.34	0.00142	(15063019)		
439815.21	3761328.34	0.00166	(12081723)	439865.21
3761328.34	0.00264	(12100607)		
440862.15	3761300.73	0.00163	(15060905)	442015.21
3761328.34	0.00189	(13092007)		
439615.21	3761378.34	0.00113	(15063019)	439665.21
3761378.34	0.00119	(15063019)		
439715.21	3761378.34	0.00128	(15063019)	439765.21
3761378.34	0.00140	(15063019)		
439815.21	3761378.34	0.00163	(12081723)	439865.21
3761378.34	0.00263	(12100607)		
441165.21	3761378.34	0.00234	(14021808)	439615.21
3761428.34	0.00111	(15063019)		
439665.21	3761428.34	0.00117	(15063019)	439715.21
3761428.34	0.00126	(15063019)		
439765.21	3761428.34	0.00138	(15063019)	439815.21
3761428.34	0.00161	(12081723)		
439865.21	3761428.34	0.00261	(12100607)	439948.61
3761395.68	0.00202	(15073003)		
441215.21	3761428.34	0.00213	(16102406)	442015.21
3761428.34	0.00167	(15091221)		
439615.21	3761478.34	0.00109	(15063019)	439665.21
3761478.34	0.00115	(15063019)		
439715.21	3761478.34	0.00123	(15063019)	439765.21
3761478.34	0.00135	(15021220)		
439815.21	3761478.34	0.00160	(12081723)	439865.21
3761478.34	0.00259	(12100607)		
440415.21	3761478.34	0.00104	(15031221)	441965.21
3761478.34	0.00163	(15082522)		
439615.21	3761528.34	0.00106	(15063019)	439665.21
3761528.34	0.00112	(15112017)		
439715.21	3761528.34	0.00122	(15090919)	439765.21
3761528.34	0.00135	(15090919)		
439815.21	3761528.34	0.00162	(12081723)	439865.21

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3761528.34	0.00258	(14071806)		
439933.91	3761525.28	0.00238	(14071806)	441965.21
3761528.34	0.00154	(16080301)		
442015.21	3761528.34	0.00150	(16080301)	442065.21
3761528.34	0.00150	(15082522)		
439615.21	3761578.34	0.00105	(15090919)	439665.21
3761578.34	0.00112	(15090919)		
439715.21	3761578.34	0.00122	(15090919)	439765.21
3761578.34	0.00136	(15090919)		
439815.21	3761578.34	0.00165	(12081723)	439865.21
3761578.34	0.00257	(14071806)		
439948.29	3761730.30	0.00201	(15102305)	439865.21
3761928.34	0.00249	(14071806)		
439865.21	3761978.34	0.00249	(14071806)	439937.22
3761960.11	0.00230	(14071806)		
439938.52	3762030.30	0.00225	(14071806)	439941.98
3762097.71	0.00215	(14071806)		
440115.21	3762128.34	0.00110	(15091923)	440165.21
3762128.34	0.00105	(12080924)		
440215.21	3762128.34	0.00102	(12080924)	439615.21
3762528.34	0.00100	(15102306)		
439665.21	3762528.34	0.00106	(16040703)	439715.21
3762528.34	0.00116	(15070104)		
439765.21	3762528.34	0.00131	(12081723)	439965.21
3762528.34	0.00181	(16072803)		
439615.21	3762578.34	0.00099	(16040703)	439665.21
3762578.34	0.00106	(15070104)		
439715.21	3762578.34	0.00114	(15070104)	439765.21
3762578.34	0.00128	(15070104)		
439815.21	3762578.34	0.00156	(15090822)	439865.21
3762578.34	0.00240	(15090822)		
439965.21	3762578.34	0.00181	(16072803)	439615.21
3762628.34	0.00098	(15070104)		
439665.21	3762628.34	0.00104	(15070104)	439715.21
3762628.34	0.00113	(15070104)		
439765.21	3762628.34	0.00126	(14010617)	439815.21
3762628.34	0.00153	(15090822)		
439865.21	3762628.34	0.00238	(16072222)	439965.21
3762628.34	0.00175	(16072803)		
439615.21	3762678.34	0.00098	(15070104)	439665.21
3762678.34	0.00103	(15070104)		
439715.21	3762678.34	0.00111	(14010617)	439765.21
3762678.34	0.00123	(14010617)		
439815.21	3762678.34	0.00150	(15090822)	439965.21
3762678.34	0.00165	(14091620)		

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 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc      \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*

03/09/21

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
439865.21	3762928.34	0.00134 (16072222)	439615.21
3763078.34	0.00078 (15031421)		
439665.21	3763078.34	0.00085 (15091922)	439715.21
3763078.34	0.00095 (15090405)		
439765.21	3763078.34	0.00104 (13083106)	439815.21
3763078.34	0.00114 (15090822)		
439865.21	3763078.34	0.00123 (14091501)	439615.21
3763128.34	0.00076 (12090823)		
439665.21	3763128.34	0.00084 (15091922)	439715.21
3763128.34	0.00092 (15090405)		
439765.21	3763128.34	0.00102 (16103007)	439815.21
3763128.34	0.00110 (15090822)		
439865.21	3763128.34	0.00119 (14091501)	439615.21
3763178.34	0.00075 (12090823)		
439665.21	3763178.34	0.00084 (15091922)	439715.21
3763178.34	0.00092 (12091102)		
439765.21	3763178.34	0.00101 (16102821)	439815.21
3763178.34	0.00107 (13072224)		
439865.21	3763178.34	0.00115 (14091501)	439615.21
3763228.34	0.00075 (12090823)		
439665.21	3763228.34	0.00083 (15091922)	439715.21
3763228.34	0.00091 (12091102)		

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439765.21	3763228.34	0.00099	(16102821)	439815.21
3763228.34	0.00105	(16102821)		
439865.21	3763228.34	0.00112	(13083105)	439615.21
3763278.34	0.00075	(16020920)		
439665.21	3763278.34	0.00082	(15091922)	439715.21
3763278.34	0.00089	(12081723)		
439765.21	3763278.34	0.00097	(16102821)	439815.21
3763278.34	0.00102	(13091202)		
439865.21	3763278.34	0.00109	(13083105)	440165.21
3763728.34	0.00070	(12111805)		
440215.21	3763728.34	0.00065	(16062602)	442023.45
3761048.68	0.00178	(13082621)		
445603.81	3760226.33	0.00078	(12091419)	445653.81
3760226.33	0.00075	(12071219)		
445603.81	3760276.33	0.00083	(12071219)	445653.81
3760276.33	0.00079	(16062406)		
445603.81	3760326.33	0.00086	(16062406)	445653.81
3760326.33	0.00081	(15091022)		
445603.81	3760376.33	0.00087	(14062606)	445653.81
3760376.33	0.00082	(14062606)		
445603.81	3760426.33	0.00084	(14070523)	445653.81
3760426.33	0.00080	(14062606)		
445603.81	3760476.33	0.00080	(12090821)	445653.81
3760476.33	0.00077	(12090821)		
445603.81	3760526.33	0.00075	(16073023)	445653.81
3760526.33	0.00073	(16073023)		
445603.81	3760576.33	0.00069	(15101503)	445653.81
3760576.33	0.00068	(15101503)		
445603.81	3760626.33	0.00064	(15082521)	445653.81
3760626.33	0.00063	(15082521)		
445603.81	3760676.33	0.00059	(15082521)	445653.81
3760676.33	0.00059	(15082521)		
445603.81	3760726.33	0.00056	(15082521)	445653.81
3760726.33	0.00056	(15082521)		
445603.81	3760776.33	0.00054	(15082521)	445653.81
3760776.33	0.00054	(15082521)		

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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,

SOL\_operations\_rev2.ADO

, L0040794 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040795 , L0040796 ,  
 , L0040802 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040803 , L0040804 ,  
 , L0040810 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
3754328.34	438915.21	3754328.34	0.00004m	(13010324)	438965.21
3754378.34	438815.21	3754378.34	0.00004m	(13010324)	438865.21
3754378.34	438915.21	3754378.34	0.00004m	(13010324)	438965.21
3754378.34	439015.21	3754378.34	0.00004m	(13010324)	439065.21
3754428.34	439115.21	3754378.34	0.00004m	(13010324)	438765.21
3754428.34	438815.21	3754428.34	0.00004m	(13010324)	438865.21
3754428.34	438915.21	3754428.34	0.00004m	(13010324)	438965.21
3754428.34	439015.21	3754428.34	0.00004m	(13010324)	439065.21
3754478.34	439115.21	3754428.34	0.00004m	(13010324)	438715.21
3754478.34	438765.21	3754478.34	0.00004m	(13010324)	438815.21
3754478.34	438865.21	3754478.34	0.00004m	(13010324)	438915.21
3754478.34	438965.21	3754478.34	0.00004m	(13010324)	439015.21
3754478.34	439065.21	3754478.34	0.00004m	(13010324)	439115.21
3754528.34	438715.21	3754528.34	0.00004m	(13010324)	438765.21
3754528.34	438815.21	3754528.34	0.00004m	(13010324)	438865.21
3754528.34	438915.21	3754528.34	0.00004m	(13010324)	438965.21



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3754528.34	0.00004m (13010324)	
439015.21	3754528.34	0.00004m (13010324) 439065.21
3754528.34	0.00004m (13010324)	
438715.21	3754578.34	0.00004m (13010324) 438765.21
3754578.34	0.00004m (13010324)	
438815.21	3754578.34	0.00004m (13010324) 438865.21
3754578.34	0.00004m (13010324)	
438915.21	3754578.34	0.00004m (13010324) 438965.21
3754578.34	0.00004m (13010324)	
439015.21	3754578.34	0.00004m (13010324) 438665.21
3754678.34	0.00004m (13010324)	
438665.21	3754728.34	0.00004m (13010324) 438715.21
3754728.34	0.00004m (13010324)	
438765.21	3754728.34	0.00004m (13010324) 438765.21
3754778.34	0.00004m (13010324)	
439165.21	3755128.34	0.00004m (13010324) 439915.21
3757928.34	0.00011m (13010324)	
440215.21	3758078.34	0.00013m (13010324) 447565.21
3759878.34	0.00010 (13050124)	
439815.21	3759928.34	0.00075 (16122724) 439815.21
3759978.34	0.00077 (16122724)	
439815.21	3760028.34	0.00078 (16122724) 439815.21
3760078.34	0.00080 (16122724)	
439815.21	3760128.34	0.00082 (16122724) 445265.21
3760128.34	0.00026 (13050124)	
445315.21	3760128.34	0.00026 (13050124) 445365.21
3760128.34	0.00026 (13050124)	
445415.21	3760128.34	0.00026 (13050124) 445465.21
3760128.34	0.00025 (13050124)	
445515.21	3760128.34	0.00025 (13050124) 445565.21
3760128.34	0.00025 (13050124)	
439815.21	3760178.34	0.00084 (16122724) 445265.21
3760178.34	0.00030 (13050124)	
445315.21	3760178.34	0.00030 (13050124) 445365.21
3760178.34	0.00029 (13050124)	
445415.21	3760178.34	0.00029 (13050124) 445465.21
3760178.34	0.00029 (13050124)	
445515.21	3760178.34	0.00028 (13050124) 445565.21
3760178.34	0.00027 (13050124)	
445265.21	3760228.34	0.00035 (13050124) 445315.21
3760228.34	0.00035 (13050124)	
445365.21	3760228.34	0.00034 (13050124) 445415.21
3760228.34	0.00033 (13050124)	
445465.21	3760228.34	0.00032 (13050124) 445515.21
3760228.34	0.00031 (13050124)	
445565.21	3760228.34	0.00030 (13050124) 445265.21
3760278.34	0.00044 (13050124)	
445315.21	3760278.34	0.00043 (13050124) 445365.21

SOL\_operations\_rev2.ADO

3760278.34 0.00041 (13050124)  
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 View\SOL\_operations\_rev2\SOL\_operations\_rev2.isc \*\*\* 03/09/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
445415.21	3760278.34	0.00039	(13050124)	445465.21
3760278.34	0.00036	(13050124)		
445515.21	3760278.34	0.00034	(13050124)	445565.21
3760278.34	0.00032	(13050124)		
445265.21	3760328.34	0.00059	(13050124)	445315.21
3760328.34	0.00054	(13050124)		
445365.21	3760328.34	0.00048	(13050124)	445415.21
3760328.34	0.00043	(13050124)		
445465.21	3760328.34	0.00039	(13050124)	445515.21
3760328.34	0.00036	(13050124)		
445565.21	3760328.34	0.00034	(13050124)	445265.21
3760378.34	0.00081	(13050124)		
445315.21	3760378.34	0.00062	(13050124)	445365.21
3760378.34	0.00052	(13050124)		
445415.21	3760378.34	0.00045	(13050124)	445465.21
3760378.34	0.00040	(13050124)		
445515.21	3760378.34	0.00036	(13050124)	445565.21
3760378.34	0.00034	(13050124)		

SOL\_operations\_rev2.ADO

444715.21	3760428.34	0.00178	(12120624)	444765.21
3760428.34	0.00170	(12120624)		
444815.21	3760428.34	0.00163	(12120624)	444865.21
3760428.34	0.00156	(12120624)		
444915.21	3760428.34	0.00152	(12120624)	444965.21
3760428.34	0.00147	(12120624)		
445015.21	3760428.34	0.00142	(12120624)	445065.21
3760428.34	0.00136	(12120624)		
445115.21	3760428.34	0.00129c	(12121724)	445165.21
3760428.34	0.00116c	(12121724)		
445265.21	3760428.34	0.00078m	(12050224)	445315.21
3760428.34	0.00062m	(12050224)		
445365.21	3760428.34	0.00052m	(12050224)	445415.21
3760428.34	0.00045m	(12050224)		
445465.21	3760428.34	0.00040m	(12050224)	445515.21
3760428.34	0.00036m	(12050224)		
445565.21	3760428.34	0.00033m	(12050224)	444665.21
3760478.34	0.00078c	(12121724)		
444715.21	3760478.34	0.00077c	(12121724)	444765.21
3760478.34	0.00076c	(12121724)		
444815.21	3760478.34	0.00074c	(12121724)	444865.21
3760478.34	0.00073	(13111924)		
444915.21	3760478.34	0.00071	(13111924)	444965.21
3760478.34	0.00070	(13111924)		
445015.21	3760478.34	0.00068	(13111924)	445065.21
3760478.34	0.00066	(13111924)		
445115.21	3760478.34	0.00064	(12120224)	445165.21
3760478.34	0.00062m	(12050224)		
445265.21	3760478.34	0.00058m	(12050224)	445315.21
3760478.34	0.00055m	(12050224)		
445365.21	3760478.34	0.00050m	(12050224)	445415.21
3760478.34	0.00045m	(12050224)		
445465.21	3760478.34	0.00041m	(12050224)	445515.21
3760478.34	0.00038m	(12050224)		
445565.21	3760478.34	0.00035m	(12050224)	443434.87
3760505.41	0.00124	(12120624)		
443519.04	3760505.41	0.00123	(12120624)	443548.29
3760505.41	0.00123	(12120624)		
443736.51	3760500.50	0.00134	(12120624)	443823.40
3760503.23	0.00128	(12120624)		
444665.21	3760528.34	0.00054	(13111924)	444715.21
3760528.34	0.00054	(13111924)		
444765.21	3760528.34	0.00053	(13111924)	444815.21
3760528.34	0.00052	(13111924)		
444865.21	3760528.34	0.00052	(13111924)	444915.21
3760528.34	0.00051m	(12050224)		
444965.21	3760528.34	0.00050m	(12050224)	445015.21
3760528.34	0.00050m	(12050224)		

SOL\_operations\_rev2.ADO

445065.21	3760528.34	0.00049m (12050224)	445115.21
3760528.34	0.00048m (12050224)		
445165.21	3760528.34	0.00048m (12050224)	445265.21
3760528.34	0.00046m (12050224)		
445315.21	3760528.34	0.00045m (12050224)	445365.21
3760528.34	0.00044m (12050224)		
445415.21	3760528.34	0.00042m (12050224)	445465.21
3760528.34	0.00039m (12050224)		
445515.21	3760528.34	0.00037m (12050224)	445565.21
3760528.34	0.00035m (12050224)		
444665.21	3760578.34	0.00044m (12050224)	444715.21
3760578.34	0.00044m (12050224)		
444765.21	3760578.34	0.00044m (12050224)	444815.21
3760578.34	0.00043m (12050224)		

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 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
444865.21	3760578.34	0.00043m (12050224)	444915.21
3760578.34	0.00043m (12050224)		
444965.21	3760578.34	0.00042m (12050224)	445015.21
3760578.34	0.00042m (12050224)		
445065.21	3760578.34	0.00041m (12050224)	445115.21

SOL\_operations\_rev2.ADO

3760578.34	0.00041m (12050224)	
445165.21	3760578.34	0.00040m (12050224) 445265.21
3760578.34	0.00039m (12050224)	
445315.21	3760578.34	0.00039m (12050224) 445365.21
3760578.34	0.00038m (12050224)	
445415.21	3760578.34	0.00037m (12050224) 445465.21
3760578.34	0.00036m (12050224)	
445515.21	3760578.34	0.00035m (12050224) 445565.21
3760578.34	0.00033m (12050224)	
444665.21	3760628.34	0.00039m (12050224) 444715.21
3760628.34	0.00039m (12050224)	
444765.21	3760628.34	0.00039m (12050224) 444815.21
3760628.34	0.00038m (12050224)	
444865.21	3760628.34	0.00038m (12050224) 444915.21
3760628.34	0.00038m (12050224)	
444965.21	3760628.34	0.00037m (12050224) 445015.21
3760628.34	0.00037m (12050224)	
445065.21	3760628.34	0.00036m (12050224) 445115.21
3760628.34	0.00036m (12050224)	
445165.21	3760628.34	0.00036m (12050224) 445265.21
3760628.34	0.00035m (12050224)	
445315.21	3760628.34	0.00034m (12050224) 445365.21
3760628.34	0.00034m (12050224)	
445415.21	3760628.34	0.00034m (12050224) 445465.21
3760628.34	0.00033m (12050224)	
445515.21	3760628.34	0.00032m (12050224) 445565.21
3760628.34	0.00031m (12050224)	
444665.21	3760678.34	0.00036m (12050224) 444715.21
3760678.34	0.00036m (12050224)	
444765.21	3760678.34	0.00035m (12050224) 444815.21
3760678.34	0.00035m (12050224)	
444865.21	3760678.34	0.00035m (12050224) 444915.21
3760678.34	0.00034m (12050224)	
444965.21	3760678.34	0.00034m (12050224) 445015.21
3760678.34	0.00034m (12050224)	
445065.21	3760678.34	0.00033m (12050224) 445115.21
3760678.34	0.00033m (12050224)	
445165.21	3760678.34	0.00032m (12050224) 445265.21
3760678.34	0.00032m (12050224)	
445315.21	3760678.34	0.00031m (12050224) 445365.21
3760678.34	0.00031m (12050224)	
445415.21	3760678.34	0.00031m (12050224) 445465.21
3760678.34	0.00030m (12050224)	
445515.21	3760678.34	0.00030m (12050224) 445565.21
3760678.34	0.00029m (12050224)	
444665.21	3760728.34	0.00034m (12050224) 444715.21
3760728.34	0.00034m (12050224)	
444765.21	3760728.34	0.00033m (12050224) 444815.21

SOL\_operations\_rev2.ADO

3760728.34	0.00032m (12050224)	
444865.21	3760728.34	0.00032m (12050224) 444915.21
3760728.34	0.00032m (12050224)	
444965.21	3760728.34	0.00031m (12050224) 445015.21
3760728.34	0.00031m (12050224)	
445065.21	3760728.34	0.00031m (12050224) 445115.21
3760728.34	0.00030m (12050224)	
445165.21	3760728.34	0.00030m (12050224) 445265.21
3760728.34	0.00030m (12050224)	
445315.21	3760728.34	0.00029m (12050224) 445365.21
3760728.34	0.00029m (12050224)	
445415.21	3760728.34	0.00029m (12050224) 445465.21
3760728.34	0.00029m (12050224)	
445515.21	3760728.34	0.00028m (12050224) 445565.21
3760728.34	0.00028m (12050224)	
444665.21	3760778.34	0.00032m (12050224) 444715.21
3760778.34	0.00032m (12050224)	
444765.21	3760778.34	0.00031m (12050224) 444815.21
3760778.34	0.00031m (12050224)	
444865.21	3760778.34	0.00031m (12050224) 444915.21
3760778.34	0.00030m (12050224)	
444965.21	3760778.34	0.00030m (12050224) 445015.21
3760778.34	0.00030m (12050224)	
445065.21	3760778.34	0.00029m (12050224) 445115.21
3760778.34	0.00029m (12050224)	
445165.21	3760778.34	0.00029m (12050224) 445265.21
3760778.34	0.00028m (12050224)	

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

SOL\_operations\_rev2.ADO

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
445315.21	3760778.34	0.00028m	(12050224)	445365.21
3760778.34	0.00027m	(12050224)		
445415.21	3760778.34	0.00027m	(12050224)	445465.21
3760778.34	0.00027m	(12050224)		
445515.21	3760778.34	0.00027m	(12050224)	445565.21
3760778.34	0.00027m	(12050224)		
439615.21	3760878.34	0.00054	(12122024)	439665.21
3760878.34	0.00059	(12122024)		
439715.21	3760878.34	0.00066	(12122024)	439765.21
3760878.34	0.00077	(12122024)		
439815.21	3760878.34	0.00097	(12122024)	439865.21
3760878.34	0.00162	(13122124)		
439615.21	3760928.34	0.00053	(12122024)	439665.21
3760928.34	0.00059	(12122024)		
439715.21	3760928.34	0.00066	(12122024)	439765.21
3760928.34	0.00077	(12122024)		
439815.21	3760928.34	0.00097	(12122024)	439865.21
3760928.34	0.00161	(13122124)		
439615.21	3760978.34	0.00053	(12122024)	439665.21
3760978.34	0.00059	(12122024)		
439715.21	3760978.34	0.00066	(12122024)	439765.21
3760978.34	0.00077	(12122024)		
439815.21	3760978.34	0.00097	(12122024)	439865.21
3760978.34	0.00161	(13122124)		
439615.21	3761028.34	0.00053	(12122024)	439665.21
3761028.34	0.00058	(12122024)		
439715.21	3761028.34	0.00066	(12122024)	439765.21
3761028.34	0.00077	(12122024)		
439815.21	3761028.34	0.00096	(12122024)	439865.21
3761028.34	0.00160	(13122124)		
442026.18	3761011.86	0.00109	(12120224)	439615.21
3761078.34	0.00053	(12122024)		
439665.21	3761078.34	0.00058	(12122024)	439715.21
3761078.34	0.00065	(12122024)		
439765.21	3761078.34	0.00076	(12122024)	439815.21
3761078.34	0.00096	(12122024)		
439865.21	3761078.34	0.00159	(13122124)	439615.21
3761128.34	0.00053	(12122024)		
439665.21	3761128.34	0.00058	(12122024)	439715.21
3761128.34	0.00065	(12122024)		

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439765.21	3761128.34	0.00076	(12122024)	439815.21
3761128.34	0.00096	(12122024)		
439865.21	3761128.34	0.00159	(13122124)	439615.21
3761178.34	0.00052	(12122024)		
439665.21	3761178.34	0.00058	(12122024)	439715.21
3761178.34	0.00065	(12122024)		
439765.21	3761178.34	0.00076	(12122024)	439815.21
3761178.34	0.00095	(12122024)		
439865.21	3761178.34	0.00158	(13122124)	439615.21
3761228.34	0.00052	(12122024)		
439665.21	3761228.34	0.00057	(12122024)	439715.21
3761228.34	0.00064	(12122024)		
439765.21	3761228.34	0.00075	(12122024)	439815.21
3761228.34	0.00095	(12122024)		
439865.21	3761228.34	0.00158	(13122124)	440165.21
3761228.34	0.00049	(12122024)		
440215.21	3761228.34	0.00049	(12122024)	440265.21
3761228.34	0.00050	(12122024)		
440615.21	3761228.34	0.00066	(12122024)	440665.21
3761228.34	0.00070	(12122024)		
440715.21	3761228.34	0.00077	(13012524)	442027.40
3761229.63	0.00124	(12120224)		
442665.21	3761228.34	0.00050m	(12050224)	442865.21
3761228.34	0.00045m	(12050224)		
442965.21	3761228.34	0.00042m	(12050224)	443065.21
3761228.34	0.00041m	(12050224)		
443265.21	3761228.34	0.00038m	(12050224)	439615.21
3761278.34	0.00052	(12122024)		
439665.21	3761278.34	0.00057	(12122024)	439715.21
3761278.34	0.00064	(12122024)		
439765.21	3761278.34	0.00075	(12122024)	439815.21
3761278.34	0.00094	(12122024)		
439865.21	3761278.34	0.00157	(13122124)	440263.68
3761292.14	0.00047	(12122024)		
440322.11	3761293.68	0.00048	(12122024)	440565.21
3761299.81	0.00055	(12011324)		
440756.01	3761299.04	0.00072	(13012524)	440968.28
3761294.45	0.00093	(13012524)		
439615.21	3761328.34	0.00051	(12122024)	439665.21
3761328.34	0.00056	(12122024)		

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*



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\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

\*\*\*

INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
439715.21	3761328.34	0.00063	(12122024)	439765.21
3761328.34	0.00074	(12122024)		
439815.21	3761328.34	0.00093	(12122024)	439865.21
3761328.34	0.00156	(13122124)		
440862.15	3761300.73	0.00081	(13012524)	442015.21
3761328.34	0.00099	(12120224)		
439615.21	3761378.34	0.00050	(12122024)	439665.21
3761378.34	0.00055	(12122024)		
439715.21	3761378.34	0.00062	(12122024)	439765.21
3761378.34	0.00073	(12122024)		
439815.21	3761378.34	0.00092	(12122024)	439865.21
3761378.34	0.00155	(13122124)		
441165.21	3761378.34	0.00084	(13012524)	439615.21
3761428.34	0.00050	(12122024)		
439665.21	3761428.34	0.00055	(12122024)	439715.21
3761428.34	0.00061	(12122024)		
439765.21	3761428.34	0.00072	(12122024)	439815.21
3761428.34	0.00090	(12122024)		
439865.21	3761428.34	0.00154	(13122124)	439948.61
3761395.68	0.00113c	(14012124)		
441215.21	3761428.34	0.00071m	(14021824)	442015.21
3761428.34	0.00079m	(16031424)		
439615.21	3761478.34	0.00049	(12122024)	439665.21
3761478.34	0.00054	(12122024)		
439715.21	3761478.34	0.00060	(12122024)	439765.21
3761478.34	0.00071	(12122024)		
439815.21	3761478.34	0.00089	(12122024)	439865.21

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3761478.34	0.00153	(12120624)		
440415.21	3761478.34	0.00043	(12020424)	441965.21
3761478.34	0.00076m	(16031424)		
439615.21	3761528.34	0.00048	(12122024)	439665.21
3761528.34	0.00053	(12122024)		
439715.21	3761528.34	0.00059	(12122024)	439765.21
3761528.34	0.00069	(12122024)		
439815.21	3761528.34	0.00088	(12122024)	439865.21
3761528.34	0.00152	(12120624)		
439933.91	3761525.28	0.00139c	(14012124)	441965.21
3761528.34	0.00070m	(16031424)		
442015.21	3761528.34	0.00068m	(16031424)	442065.21
3761528.34	0.00067m	(16031424)		
439615.21	3761578.34	0.00047	(12122024)	439665.21
3761578.34	0.00051	(12122024)		
439715.21	3761578.34	0.00058	(12122024)	439765.21
3761578.34	0.00068	(12122024)		
439815.21	3761578.34	0.00087	(12122024)	439865.21
3761578.34	0.00152	(12120624)		
439948.29	3761730.30	0.00111	(12120624)	439865.21
3761928.34	0.00147	(12120624)		
439865.21	3761978.34	0.00146	(12120624)	439937.22
3761960.11	0.00131	(12120624)		
439938.52	3762030.30	0.00129	(12120624)	439941.98
3762097.71	0.00122	(12120624)		
440115.21	3762128.34	0.00043c	(12121724)	440165.21
3762128.34	0.00038c	(12121724)		
440215.21	3762128.34	0.00035	(12120624)	439615.21
3762528.34	0.00037	(12020424)		
439665.21	3762528.34	0.00040	(12020424)	439715.21
3762528.34	0.00045	(12020424)		
439765.21	3762528.34	0.00054	(12020424)	439965.21
3762528.34	0.00084c	(12121724)		
439615.21	3762578.34	0.00035	(12020424)	439665.21
3762578.34	0.00038	(12020424)		
439715.21	3762578.34	0.00043	(12020424)	439765.21
3762578.34	0.00051	(12020424)		
439815.21	3762578.34	0.00067	(12020424)	439865.21
3762578.34	0.00131	(12120624)		
439965.21	3762578.34	0.00081c	(12121724)	439615.21
3762628.34	0.00034	(12020424)		
439665.21	3762628.34	0.00037	(12020424)	439715.21
3762628.34	0.00041	(12020424)		
439765.21	3762628.34	0.00048	(12020424)	439815.21
3762628.34	0.00061	(12020424)		
439865.21	3762628.34	0.00122	(12120624)	439965.21
3762628.34	0.00076c	(12121724)		
439615.21	3762678.34	0.00032	(12020424)	439665.21

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3762678.34	0.00034	(12020424)		
439715.21	3762678.34	0.00038	(12020424)	439765.21
3762678.34	0.00043	(12020424)		
439815.21	3762678.34	0.00054	(12020424)	439965.21
3762678.34	0.00064c	(12121724)		

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0040784 , L0040785  
 , L0040786 , L0040787 , L0040788 ,  
 L0040789 , L0040790 , L0040791 , L0040792 , L0040793  
 , L0040794 , L0040795 , L0040796 ,  
 L0040797 , L0040798 , L0040799 , L0040800 , L0040801  
 , L0040802 , L0040803 , L0040804 ,  
 L0040805 , L0040806 , L0040807 , L0040808 , L0040809  
 , L0040810 , L0040811 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
439865.21	3762928.34	0.00024m	(14021824)	439615.21
3763078.34	0.00019	(12120624)		
439665.21	3763078.34	0.00020	(12120624)	439715.21
3763078.34	0.00020	(12120624)		
439765.21	3763078.34	0.00020m	(14021824)	439815.21
3763078.34	0.00020m	(14021824)		
439865.21	3763078.34	0.00020m	(15011124)	439615.21
3763128.34	0.00018	(12120624)		
439665.21	3763128.34	0.00019	(12120624)	439715.21
3763128.34	0.00019	(12120624)		
439765.21	3763128.34	0.00019m	(14021824)	439815.21
3763128.34	0.00019m	(14021824)		
439865.21	3763128.34	0.00019m	(15011124)	439615.21
3763178.34	0.00018	(12120624)		

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439665.21	3763178.34	0.00018	(12120624)	439715.21
3763178.34	0.00018	(12120624)		
439765.21	3763178.34	0.00018m	(14021824)	439815.21
3763178.34	0.00018m	(15011124)		
439865.21	3763178.34	0.00018m	(15011124)	439615.21
3763228.34	0.00017	(12120624)		
439665.21	3763228.34	0.00017	(12120624)	439715.21
3763228.34	0.00017	(12120624)		
439765.21	3763228.34	0.00017m	(14021824)	439815.21
3763228.34	0.00017m	(15011124)		
439865.21	3763228.34	0.00018m	(15011124)	439615.21
3763278.34	0.00016	(12120624)		
439665.21	3763278.34	0.00017	(12120624)	439715.21
3763278.34	0.00016	(12120624)		
439765.21	3763278.34	0.00016m	(15011124)	439815.21
3763278.34	0.00017m	(15011124)		
439865.21	3763278.34	0.00017m	(15011124)	440165.21
3763728.34	0.00011	(12022524)		
440215.21	3763728.34	0.00010	(12022524)	442023.45
3761048.68	0.00106m	(16031424)		
445603.81	3760226.33	0.00029	(13050124)	445653.81
3760226.33	0.00028	(13050124)		
445603.81	3760276.33	0.00031	(13050124)	445653.81
3760276.33	0.00029	(13050124)		
445603.81	3760326.33	0.00032	(13050124)	445653.81
3760326.33	0.00030	(13050124)		
445603.81	3760376.33	0.00032	(13050124)	445653.81
3760376.33	0.00030	(13050124)		
445603.81	3760426.33	0.00031m	(12050224)	445653.81
3760426.33	0.00029m	(12050224)		
445603.81	3760476.33	0.00033m	(12050224)	445653.81
3760476.33	0.00031m	(12050224)		
445603.81	3760526.33	0.00034m	(12050224)	445653.81
3760526.33	0.00032m	(12050224)		
445603.81	3760576.33	0.00033m	(12050224)	445653.81
3760576.33	0.00031m	(12050224)		
445603.81	3760626.33	0.00031m	(12050224)	445653.81
3760626.33	0.00030m	(12050224)		
445603.81	3760676.33	0.00029m	(12050224)	445653.81
3760676.33	0.00029m	(12050224)		
445603.81	3760726.33	0.00028m	(12050224)	445653.81
3760726.33	0.00027m	(12050224)		
445603.81	3760776.33	0.00026m	(12050224)	445653.81
3760776.33	0.00026m	(12050224)		

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.00114 AT (	444715.21, 3760428.34,
202.28,	202.28, 0.00) DC		
	2ND HIGHEST VALUE IS	0.00109 AT (	444765.21, 3760428.34,
201.49,	201.49, 0.00) DC		
	3RD HIGHEST VALUE IS	0.00105 AT (	444815.21, 3760428.34,
201.23,	201.23, 0.00) DC		
	4TH HIGHEST VALUE IS	0.00101 AT (	444865.21, 3760428.34,
201.45,	201.45, 0.00) DC		
	5TH HIGHEST VALUE IS	0.00099 AT (	444915.21, 3760428.34,
201.49,	201.49, 0.00) DC		
	6TH HIGHEST VALUE IS	0.00096 AT (	444965.21, 3760428.34,
202.04,	202.04, 0.00) DC		
	7TH HIGHEST VALUE IS	0.00093 AT (	445015.21, 3760428.34,
201.93,	201.93, 0.00) DC		
	8TH HIGHEST VALUE IS	0.00090 AT (	439933.91, 3761525.28,
205.17,	205.17, 0.00) DC		
	9TH HIGHEST VALUE IS	0.00089 AT (	445065.21, 3760428.34,
201.85,	201.85, 0.00) DC		
	10TH HIGHEST VALUE IS	0.00089 AT (	443736.51, 3760500.50,
203.93,	203.93, 0.00) DC		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR

RESULTS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
-----				
-----				

ALL HIGH 1ST HIGH VALUE IS 0.00330 ON 13041207: AT ( 444715.21,  
 3760428.34, 202.28, 202.28, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
-----				
-----				

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ALL HIGH 1ST HIGH VALUE IS 0.00178 ON 12120624: AT ( 444715.21, 3760428.34, 202.28, 202.28, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Lakes\AERMOD
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 999 Warning Message(s)
A Total of 1279 Informational Message(s)
A Total of 43848 Hours Were Processed
A Total of 917 Calm Hours Identified
A Total of 362 Missing Hours Identified ( 0.83 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320 8559 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 8560 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 8561 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 8562 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 8563 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 8564 VPARAM: Input Parameter May Be Out-of-Range for Parameter
QS

SOL\_operations\_rev2.ADO

SO W320	8565	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8566	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8567	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8568	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8569	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8570	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8571	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8572	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8573	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8574	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8575	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8576	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8577	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8578	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8581	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8582	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8583	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8584	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8585	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8586	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8587	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8588	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8589	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8590	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SOL\_operations\_rev2.ADO

SO W320	8591	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8592	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8593	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8594	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8595	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8596	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8597	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8598	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8599	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8600	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8603	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8604	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8605	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8606	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8610	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8613	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8614	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8615	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8616	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8617	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8618	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8619	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8620	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8621	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8622	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8627	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8639	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8640	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8641	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8642	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8643	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8644	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8645	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8646	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8651	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8653	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8654	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8663	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8664	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8666	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8668	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8669	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8671	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8682	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8694	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8695	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8705	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8716	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8718	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8719	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8721	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8739	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8740	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8741	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8742	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8743	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8745	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8746	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8748	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8749	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8751	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8766	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8767	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8774	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8807	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8808	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8809	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8817	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8864	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	8907	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	9451	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	9458	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	9460	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320	9484	VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320 9573 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
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SO W320 9580 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
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SO W320 9581 VPARAM: Input Parameter May Be Out-of-Range for Parameter  
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\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*





\*HARP - HRACalc v19044 3/9/2021 9:31:33 AM - Acute Risk - Input File: K:\ORA\_AQN\195242001 - South Ontario Logistics\5 HRA\5.2 Models\RISK\Construction\Const\_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD
1				9901 DieselExhPM	0	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2				107028 Acrolein	0.083	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-02	0.00E+00	3.32E-02	0.00E+00	0.00E+00	0.00E+00



\*HARP - HRACalc v19044 3/16/2021 9:13:12 AM - Acute Risk - Input File: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\SOL\PM10\_SOL\_operationsHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\RESP	SKIN	EYE	BONE/TEE\ENDO	BLOOD
1			9901	DieselExhPM	0	NonCancerAc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.00697	NonCancerAc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	2.79E-03	0.00E+00



## **APPENDIX B3**

### **GREENHOUSE GAS EMISSIONS MODEL DATA**



South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

**South Ontario Logistics Center Phase 1 - No Mitigation**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	510.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00

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tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
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tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
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tblFleetMix	SBUS	8.0300e-004	0.00
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tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
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tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43

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tblVehicleEF	HHD	4.9000e-005	2.0000e-006
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
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tblVehicleEF	HHD	3.0010e-003	1.3400e-004
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tblVehicleEF	HHD	0.10	0.16
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tblVehicleEF	HHD	7,019.59	1,065.64
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tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
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tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

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tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004



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tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

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tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20

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tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20

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tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

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tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

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tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

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tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

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tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15



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tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06

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tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003

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tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

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tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

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tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20

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tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003



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tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

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tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003

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tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004

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tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

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tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

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tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

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tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40



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tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

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tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40
tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15

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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71
tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004

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tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

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tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

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tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

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tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003



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tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

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tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06

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tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68

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tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

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tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

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tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03



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tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

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tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00

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tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

## 2.0 Emissions Summary

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South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	1.2215	1.2215
2	9-1-2022	11-30-2022	1.3096	1.3096
3	12-1-2022	2-28-2023	2.3080	2.3080
4	3-1-2023	5-31-2023	9.3269	9.3269
5	6-1-2023	8-31-2023	3.0425	3.0425
		Highest	9.3269	9.3269

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	7,069.9532	7,069.9532	0.3536	0.0915	7,106.0618
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Offroad	1.3944	13.0543	15.0662	0.0224		0.7792	0.7792		0.7169	0.7169	0.0000	1,965.1723	1,965.1723	0.6356	0.0000	1,981.0617
Waste						0.0000	0.0000		0.0000	0.0000	642.2654	0.0000	642.2654	37.9568	0.0000	1,591.1854
Water						0.0000	0.0000		0.0000	0.0000	232.7709	2,256.7337	2,489.5046	24.0360	0.5910	3,266.5354
<b>Total</b>	<b>17.2341</b>	<b>62.6009</b>	<b>57.5499</b>	<b>0.3654</b>	<b>22.1061</b>	<b>1.2716</b>	<b>23.3777</b>	<b>6.0227</b>	<b>1.1895</b>	<b>7.2122</b>	<b>875.0363</b>	<b>44,116.8156</b>	<b>44,991.8520</b>	<b>64.7449</b>	<b>0.6826</b>	<b>46,813.8738</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	6,737.2303	6,737.2303	0.3393	0.0868	6,771.5760
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Offroad	1.3944	13.0543	15.0662	0.0224		0.7792	0.7792		0.7169	0.7169	0.0000	1,965.1723	1,965.1723	0.6356	0.0000	1,981.0617
Waste						0.0000	0.0000		0.0000	0.0000	321.1327	0.0000	321.1327	18.9784	0.0000	795.5927
Water						0.0000	0.0000		0.0000	0.0000	199.6243	1,939.0197	2,138.6440	20.6135	0.5069	2,805.0436
<b>Total</b>	<b>17.2218</b>	<b>62.4884</b>	<b>57.4554</b>	<b>0.3647</b>	<b>22.1061</b>	<b>1.2630</b>	<b>23.3691</b>	<b>6.0227</b>	<b>1.1810</b>	<b>7.2037</b>	<b>520.7570</b>	<b>43,466.3788</b>	<b>43,987.1358</b>	<b>42.3297</b>	<b>0.5937</b>	<b>45,222.3035</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.18</b>	<b>0.16</b>	<b>0.19</b>	<b>0.00</b>	<b>0.67</b>	<b>0.04</b>	<b>0.00</b>	<b>0.72</b>	<b>0.12</b>	<b>40.49</b>	<b>1.47</b>	<b>2.23</b>	<b>34.62</b>	<b>13.02</b>	<b>3.40</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 43.35**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)**

**OffRoad Equipment**

## South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1856	0.0000	0.1856	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578
<b>Total</b>	<b>0.0528</b>	<b>0.5144</b>	<b>0.4119</b>	<b>7.8000e-004</b>	<b>0.1856</b>	<b>0.0249</b>	<b>0.2104</b>	<b>0.0281</b>	<b>0.0231</b>	<b>0.0512</b>	<b>0.0000</b>	<b>67.9805</b>	<b>67.9805</b>	<b>0.0191</b>	<b>0.0000</b>	<b>68.4578</b>

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**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0148	4.6000e-004	0.0152	4.0500e-003	4.4000e-004	4.4900e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
<b>Total</b>	<b>6.2000e-003</b>	<b>0.1843</b>	<b>0.0410</b>	<b>6.8000e-004</b>	<b>0.0181</b>	<b>4.8000e-004</b>	<b>0.0185</b>	<b>4.9200e-003</b>	<b>4.6000e-004</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>65.4043</b>	<b>65.4043</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>65.4932</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0724	0.0000	0.0724	0.0110	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578
<b>Total</b>	<b>0.0528</b>	<b>0.5144</b>	<b>0.4119</b>	<b>7.8000e-004</b>	<b>0.0724</b>	<b>0.0249</b>	<b>0.0972</b>	<b>0.0110</b>	<b>0.0231</b>	<b>0.0341</b>	<b>0.0000</b>	<b>67.9804</b>	<b>67.9804</b>	<b>0.0191</b>	<b>0.0000</b>	<b>68.4578</b>

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**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0138	4.6000e-004	0.0142	3.8100e-003	4.4000e-004	4.2500e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
<b>Total</b>	<b>6.2000e-003</b>	<b>0.1843</b>	<b>0.0410</b>	<b>6.8000e-004</b>	<b>0.0168</b>	<b>4.8000e-004</b>	<b>0.0173</b>	<b>4.6200e-003</b>	<b>4.6000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>65.4043</b>	<b>65.4043</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>65.4932</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5985	83.5985	0.0270	0.0000	84.2744
<b>Total</b>	<b>0.0793</b>	<b>0.8271</b>	<b>0.4924</b>	<b>9.5000e-004</b>	<b>0.4517</b>	<b>0.0403</b>	<b>0.4920</b>	<b>0.2483</b>	<b>0.0371</b>	<b>0.2854</b>	<b>0.0000</b>	<b>83.5985</b>	<b>83.5985</b>	<b>0.0270</b>	<b>0.0000</b>	<b>84.2744</b>

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**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
<b>Total</b>	<b>1.9400e-003</b>	<b>1.4100e-003</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>4.9300e-003</b>	<b>3.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>3.9470</b>	<b>3.9470</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.9496</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5984	83.5984	0.0270	0.0000	84.2743
<b>Total</b>	<b>0.0793</b>	<b>0.8271</b>	<b>0.4924</b>	<b>9.5000e-004</b>	<b>0.1762</b>	<b>0.0403</b>	<b>0.2165</b>	<b>0.0968</b>	<b>0.0371</b>	<b>0.1339</b>	<b>0.0000</b>	<b>83.5984</b>	<b>83.5984</b>	<b>0.0270</b>	<b>0.0000</b>	<b>84.2743</b>

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**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
<b>Total</b>	<b>1.9400e-003</b>	<b>1.4100e-003</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>4.5500e-003</b>	<b>3.0000e-005</b>	<b>4.5800e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.9470</b>	<b>3.9470</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.9496</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2958	0.0000	0.2958	0.1157	0.0000	0.1157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7840	171.7840	0.0556	0.0000	173.1730
<b>Total</b>	<b>0.1142</b>	<b>1.2236</b>	<b>0.9148</b>	<b>1.9600e-003</b>	<b>0.2958</b>	<b>0.0515</b>	<b>0.3473</b>	<b>0.1157</b>	<b>0.0474</b>	<b>0.1631</b>	<b>0.0000</b>	<b>171.7840</b>	<b>171.7840</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1730</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
<b>Total</b>	<b>2.7100e-003</b>	<b>1.9700e-003</b>	<b>0.0206</b>	<b>6.0000e-005</b>	<b>6.9100e-003</b>	<b>4.0000e-005</b>	<b>6.9500e-003</b>	<b>1.8300e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.5258</b>	<b>5.5258</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.5294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1153	0.0000	0.1153	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7838	171.7838	0.0556	0.0000	173.1727
<b>Total</b>	<b>0.1142</b>	<b>1.2236</b>	<b>0.9148</b>	<b>1.9600e-003</b>	<b>0.1153</b>	<b>0.0515</b>	<b>0.1668</b>	<b>0.0451</b>	<b>0.0474</b>	<b>0.0925</b>	<b>0.0000</b>	<b>171.7838</b>	<b>171.7838</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1727</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.3700e-003	4.0000e-005	6.4100e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
<b>Total</b>	<b>2.7100e-003</b>	<b>1.9700e-003</b>	<b>0.0206</b>	<b>6.0000e-005</b>	<b>6.3700e-003</b>	<b>4.0000e-005</b>	<b>6.4100e-003</b>	<b>1.7000e-003</b>	<b>4.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>5.5258</b>	<b>5.5258</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.5294</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1572	0.0000	0.1572	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.1572</b>	<b>0.0121</b>	<b>0.1694</b>	<b>0.0396</b>	<b>0.0111</b>	<b>0.0507</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

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**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
<b>Total</b>	<b>6.9000e-004</b>	<b>4.8000e-004</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>1.8600e-003</b>	<b>1.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.4351</b>	<b>1.4351</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4360</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0613	0.0000	0.0613	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.0613</b>	<b>0.0121</b>	<b>0.0734</b>	<b>0.0154</b>	<b>0.0111</b>	<b>0.0266</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>



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**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
<b>Total</b>	<b>6.9000e-004</b>	<b>4.8000e-004</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>1.7200e-003</b>	<b>1.0000e-005</b>	<b>1.7300e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4351</b>	<b>1.4351</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4360</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9697	130.9697	0.0312	0.0000	131.7486
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9697</b>	<b>130.9697</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7486</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3316	3.6500e-003	0.3353	0.0957	3.4900e-003	0.0992	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.4775	9.1000e-003	1.4866	0.3924	8.3800e-003	0.4008	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
<b>Total</b>	<b>0.6413</b>	<b>4.1162</b>	<b>4.8682</b>	<b>0.0260</b>	<b>1.8091</b>	<b>0.0128</b>	<b>1.8219</b>	<b>0.4881</b>	<b>0.0119</b>	<b>0.5000</b>	<b>0.0000</b>	<b>2,426.1151</b>	<b>2,426.1151</b>	<b>0.0975</b>	<b>0.0000</b>	<b>2,428.5514</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9695	130.9695	0.0312	0.0000	131.7484
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9695</b>	<b>130.9695</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7484</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3105	3.6500e-003	0.3142	0.0905	3.4900e-003	0.0940	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.3623	9.1000e-003	1.3714	0.3641	8.3800e-003	0.3725	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
<b>Total</b>	<b>0.6413</b>	<b>4.1162</b>	<b>4.8682</b>	<b>0.0260</b>	<b>1.6728</b>	<b>0.0128</b>	<b>1.6855</b>	<b>0.4547</b>	<b>0.0119</b>	<b>0.4665</b>	<b>0.0000</b>	<b>2,426.1151</b>	<b>2,426.1151</b>	<b>0.0975</b>	<b>0.0000</b>	<b>2,428.5514</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1209	90.1209	0.0292	0.0000	90.8496
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1033</b>	<b>0.4586</b>	<b>0.6563</b>	<b>1.0300e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>90.1209</b>	<b>90.1209</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8496</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
<b>Total</b>	<b>2.7200e-003</b>	<b>1.9000e-003</b>	<b>0.0202</b>	<b>6.0000e-005</b>	<b>7.4000e-003</b>	<b>5.0000e-005</b>	<b>7.4500e-003</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>5.6982</b>	<b>5.6982</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.7017</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1208	90.1208	0.0292	0.0000	90.8495
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1033</b>	<b>0.4586</b>	<b>0.6563</b>	<b>1.0300e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>90.1208</b>	<b>90.1208</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8495</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
<b>Total</b>	<b>2.7200e-003</b>	<b>1.9000e-003</b>	<b>0.0202</b>	<b>6.0000e-005</b>	<b>6.8200e-003</b>	<b>5.0000e-005</b>	<b>6.8700e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.6982</b>	<b>5.6982</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.7017</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
<b>Total</b>	<b>7.4928</b>	<b>0.0586</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>11.5068</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2354	1.4500e-003	0.2368	0.0625	1.3300e-003	0.0638	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
<b>Total</b>	<b>0.0865</b>	<b>0.0604</b>	<b>0.6429</b>	<b>2.0000e-003</b>	<b>0.2354</b>	<b>1.4500e-003</b>	<b>0.2368</b>	<b>0.0625</b>	<b>1.3300e-003</b>	<b>0.0638</b>	<b>0.0000</b>	<b>181.2031</b>	<b>181.2031</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>181.3129</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
<b>Total</b>	<b>7.4928</b>	<b>0.0586</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>11.5068</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2170	1.4500e-003	0.2184	0.0580	1.3300e-003	0.0593	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
<b>Total</b>	<b>0.0865</b>	<b>0.0604</b>	<b>0.6429</b>	<b>2.0000e-003</b>	<b>0.2170</b>	<b>1.4500e-003</b>	<b>0.2184</b>	<b>0.0580</b>	<b>1.3300e-003</b>	<b>0.0593</b>	<b>0.0000</b>	<b>181.2031</b>	<b>181.2031</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>181.3129</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Unmitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5,830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1,402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,640,457</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0



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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,582.5592	5,582.5592	0.3172	0.0656	5,610.0433
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,792.8584	5,792.8584	0.3291	0.0681	5,821.3778
Natural Gas Mitigated	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.6711	1,154.6711	0.0221	0.0212	1,161.5327
Natural Gas Unmitigated	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	1,277.0948	1,277.0948	0.0245	0.0234	1,284.6839

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.08591e+006	0.0113	0.1023	0.0859	6.1000e-004		7.7700e-003	7.7700e-003		7.7700e-003	7.7700e-003	0.0000	111.3123	111.3123	2.1300e-003	2.0400e-003	111.9738
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.73041e+007	0.0933	0.8482	0.7125	5.0900e-003		0.0645	0.0645		0.0645	0.0645	0.0000	923.4150	923.4150	0.0177	0.0169	928.9024
Unrefrigerated Warehouse-No Rail	4.54179e+006	0.0245	0.2226	0.1870	1.3400e-003		0.0169	0.0169		0.0169	0.0169	0.0000	242.3674	242.3674	4.6500e-003	4.4400e-003	243.8077
<b>Total</b>		<b>0.1291</b>	<b>1.1731</b>	<b>0.9854</b>	<b>7.0400e-003</b>		<b>0.0892</b>	<b>0.0892</b>		<b>0.0892</b>	<b>0.0892</b>	<b>0.0000</b>	<b>1,277.0948</b>	<b>1,277.0948</b>	<b>0.0245</b>	<b>0.0234</b>	<b>1,284.6839</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.46014e+006	7.8700e-003	0.0716	0.0601	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9186	77.9186	1.4900e-003	1.4300e-003	78.3817
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.69782e+007	0.0916	0.8323	0.6991	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	906.0207	906.0207	0.0174	0.0166	911.4048
Unrefrigerated Warehouse-No Rail	3.19939e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7317	170.7317	3.2700e-003	3.1300e-003	171.7463
<b>Total</b>		<b>0.1167</b>	<b>1.0607</b>	<b>0.8910</b>	<b>6.3600e-003</b>		<b>0.0806</b>	<b>0.0806</b>		<b>0.0806</b>	<b>0.0806</b>	<b>0.0000</b>	<b>1,154.6711</b>	<b>1,154.6711</b>	<b>0.0221</b>	<b>0.0212</b>	<b>1,161.5327</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.72274e+006	1,324.9953	0.0753	0.0156	1,331.5186
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.33559e+007	3,092.3104	0.1757	0.0364	3,107.5345
Unrefrigerated Warehouse-No Rail	5.28012e+006	1,222.5140	0.0695	0.0144	1,228.5327
<b>Total</b>		<b>5,792.8584</b>	<b>0.3291</b>	<b>0.0681</b>	<b>5,821.3778</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.1691e+006	1,196.8104	0.0680	0.0141	1,202.7025
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.32496e+007	3,067.6958	0.1743	0.0361	3,082.7987
Unrefrigerated Warehouse-No Rail	5.03177e+006	1,165.0144	0.0662	0.0137	1,170.7500
<b>Total</b>		<b>5,582.5592</b>	<b>0.3172</b>	<b>0.0656</b>	<b>5,610.0433</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Unmitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
<b>Total</b>	<b>13.0956</b>	<b>5.9000e-004</b>	<b>0.0648</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.1260</b>	<b>0.1260</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.1342</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
<b>Total</b>	<b>13.0956</b>	<b>5.9000e-004</b>	<b>0.0648</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.1260</b>	<b>0.1260</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.1342</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,138.644 0	20.6135	0.5069	2,805.043 6
Unmitigated	2,489.504 6	24.0360	0.5910	3,266.535 4

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.4075	44.7777	2.5400e-003	5.3000e-004	44.9982
Industrial Park	139.011 / 0	463.1896	4.5535	0.1119	610.3678
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	77.3092 / 0	257.5964	2.5324	0.0622	339.4475
Unrefrigerated Warehouse-No Rail	517.385 / 0	1,723.940 9	16.9476	0.4164	2,271.722 0
<b>Total</b>		<b>2,489.504 6</b>	<b>24.0360</b>	<b>0.5910</b>	<b>3,266.535 4</b>



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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 16.3457	42.0463	2.3900e-003	4.9000e-004	42.2533
Industrial Park	119.216 / 0	397.2314	3.9051	0.0960	523.4514
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	66.3004 / 0	220.9147	2.1718	0.0534	291.1101
Unrefrigerated Warehouse-No Rail	443.709 / 0	1,478.4517	14.5343	0.3571	1,948.2288
<b>Total</b>		<b>2,138.6440</b>	<b>20.6135</b>	<b>0.5069</b>	<b>2,805.0436</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	321.1327	18.9784	0.0000	795.5927
Unmitigated	642.2654	37.9568	0.0000	1,591.185 4

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.26	0.2558	0.0151	0.0000	0.6337
Industrial Park	745.4	151.3095	8.9421	0.0000	374.8628
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	314.25	63.7899	3.7699	0.0000	158.0368
Unrefrigerated Warehouse-No Rail	2103.1	426.9103	25.2297	0.0000	1,057.652 2
<b>Total</b>		<b>642.2654</b>	<b>37.9568</b>	<b>0.0000</b>	<b>1,591.185 4</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Industrial Park	372.7	75.6547	4.4711	0.0000	187.4314
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	157.125	31.8950	1.8849	0.0000	79.0184
Unrefrigerated Warehouse-No Rail	1051.55	213.4552	12.6148	0.0000	528.8261
<b>Total</b>		<b>321.1327</b>	<b>18.9784</b>	<b>0.0000</b>	<b>795.5927</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

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**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.2797	11.9768	14.2870	0.0191		0.7401	0.7401		0.6809	0.6809	0.0000	1,675.9556	1,675.9556	0.5420	0.0000	1,689.5065
Tractors/Loaders/Backhoes	0.1147	1.0775	0.7792	3.2900e-003		0.0391	0.0391		0.0360	0.0360	0.0000	289.2168	289.2168	0.0935	0.0000	291.5552
<b>Total</b>	<b>1.3944</b>	<b>13.0543</b>	<b>15.0662</b>	<b>0.0224</b>		<b>0.7792</b>	<b>0.7792</b>		<b>0.7169</b>	<b>0.7169</b>	<b>0.0000</b>	<b>1,965.1723</b>	<b>1,965.1723</b>	<b>0.6356</b>	<b>0.0000</b>	<b>1,981.0617</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**South Ontario Logistics Center Phase 1 - with Mitigation**  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513-25 \times 0.029 - 298 \times 0.00617 = 510.44$  to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use  $5830/601.128 \text{ ksf} = 9.6984336114770897379593031766945$ , truck trip rate shown under unrefrigerated w/h  $1402/2237.337 \text{ ksf} = 0.62663782881166315132677821892723$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

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tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	220.00	90.00

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tblFleetMix	MHD	0.02	0.00
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tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
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tblVehicleEF	HHD	1,429.26	1,400.68
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tblVehicleEF	HHD	7.1750e-003	3.4230e-003
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05

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tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35



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tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003
tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93

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tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24

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tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

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tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

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tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

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tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

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tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

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tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53



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tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

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tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64

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tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

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tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

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tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

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tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

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tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13



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tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

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tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08

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tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

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tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

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tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71

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tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01



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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

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tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71
tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003

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tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

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tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003

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tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

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tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03

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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97

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tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003



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tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

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tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

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tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

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tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

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tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	1.2215	1.2215
2	9-1-2022	11-30-2022	1.3096	1.3096
3	12-1-2022	2-28-2023	2.1179	2.1179
4	3-1-2023	5-31-2023	4.9551	4.9551
5	6-1-2023	8-31-2023	1.6170	1.6170
		Highest	4.9551	4.9551

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	7,069.9532	7,069.9532	0.3536	0.0915	7,106.0618
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Waste						0.0000	0.0000		0.0000	0.0000	642.2654	0.0000	642.2654	37.9568	0.0000	1,591.1854
Water						0.0000	0.0000		0.0000	0.0000	232.7709	2,256.7337	2,489.5046	24.0360	0.5910	3,266.5354
<b>Total</b>	<b>15.8397</b>	<b>49.5466</b>	<b>42.4837</b>	<b>0.3430</b>	<b>22.1061</b>	<b>0.4924</b>	<b>22.5985</b>	<b>6.0227</b>	<b>0.4727</b>	<b>6.4954</b>	<b>875.0363</b>	<b>42,151.6433</b>	<b>43,026.6796</b>	<b>64.1093</b>	<b>0.6826</b>	<b>44,832.8120</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	11.7484	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	6,737.2303	6,737.2303	0.3393	0.0868	6,771.5760
Mobile	2.6108	48.3557	41.1087	0.3347	21.9302	0.4022	22.3325	5.9760	0.3826	6.3586	0.0000	32,704.4112	32,704.4112	1.7616	0.0000	32,748.4499
Waste						0.0000	0.0000		0.0000	0.0000	321.1327	0.0000	321.1327	18.9784	0.0000	795.5927
Water						0.0000	0.0000		0.0000	0.0000	199.6243	1,939.0197	2,138.6440	20.6135	0.5069	2,805.0436
<b>Total</b>	<b>14.4759</b>	<b>49.4170</b>	<b>42.0644</b>	<b>0.3411</b>	<b>21.9302</b>	<b>0.4831</b>	<b>22.4133</b>	<b>5.9760</b>	<b>0.4635</b>	<b>6.4394</b>	<b>520.7570</b>	<b>41,380.7872</b>	<b>41,901.5442</b>	<b>41.6931</b>	<b>0.5937</b>	<b>43,120.7965</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>8.61</b>	<b>0.26</b>	<b>0.99</b>	<b>0.58</b>	<b>0.80</b>	<b>1.89</b>	<b>0.82</b>	<b>0.78</b>	<b>1.95</b>	<b>0.86</b>	<b>40.49</b>	<b>1.83</b>	<b>2.61</b>	<b>34.97</b>	<b>13.02</b>	<b>3.82</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 43.35**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1856	0.0000	0.1856	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578
<b>Total</b>	<b>0.0528</b>	<b>0.5144</b>	<b>0.4119</b>	<b>7.8000e-004</b>	<b>0.1856</b>	<b>0.0249</b>	<b>0.2104</b>	<b>0.0281</b>	<b>0.0231</b>	<b>0.0512</b>	<b>0.0000</b>	<b>67.9805</b>	<b>67.9805</b>	<b>0.0191</b>	<b>0.0000</b>	<b>68.4578</b>

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**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0148	4.6000e-004	0.0152	4.0500e-003	4.4000e-004	4.4900e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
<b>Total</b>	<b>6.2000e-003</b>	<b>0.1843</b>	<b>0.0410</b>	<b>6.8000e-004</b>	<b>0.0181</b>	<b>4.8000e-004</b>	<b>0.0185</b>	<b>4.9200e-003</b>	<b>4.6000e-004</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>65.4043</b>	<b>65.4043</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>65.4932</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0724	0.0000	0.0724	0.0110	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578
<b>Total</b>	<b>0.0528</b>	<b>0.5144</b>	<b>0.4119</b>	<b>7.8000e-004</b>	<b>0.0724</b>	<b>0.0249</b>	<b>0.0972</b>	<b>0.0110</b>	<b>0.0231</b>	<b>0.0341</b>	<b>0.0000</b>	<b>67.9804</b>	<b>67.9804</b>	<b>0.0191</b>	<b>0.0000</b>	<b>68.4578</b>

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**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0138	4.6000e-004	0.0142	3.8100e-003	4.4000e-004	4.2500e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
<b>Total</b>	<b>6.2000e-003</b>	<b>0.1843</b>	<b>0.0410</b>	<b>6.8000e-004</b>	<b>0.0168</b>	<b>4.8000e-004</b>	<b>0.0173</b>	<b>4.6200e-003</b>	<b>4.6000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>65.4043</b>	<b>65.4043</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>65.4932</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5985	83.5985	0.0270	0.0000	84.2744
<b>Total</b>	<b>0.0793</b>	<b>0.8271</b>	<b>0.4924</b>	<b>9.5000e-004</b>	<b>0.4517</b>	<b>0.0403</b>	<b>0.4920</b>	<b>0.2483</b>	<b>0.0371</b>	<b>0.2854</b>	<b>0.0000</b>	<b>83.5985</b>	<b>83.5985</b>	<b>0.0270</b>	<b>0.0000</b>	<b>84.2744</b>



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**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
<b>Total</b>	<b>1.9400e-003</b>	<b>1.4100e-003</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>4.9300e-003</b>	<b>3.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>3.9470</b>	<b>3.9470</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.9496</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5984	83.5984	0.0270	0.0000	84.2743
<b>Total</b>	<b>0.0793</b>	<b>0.8271</b>	<b>0.4924</b>	<b>9.5000e-004</b>	<b>0.1762</b>	<b>0.0403</b>	<b>0.2165</b>	<b>0.0968</b>	<b>0.0371</b>	<b>0.1339</b>	<b>0.0000</b>	<b>83.5984</b>	<b>83.5984</b>	<b>0.0270</b>	<b>0.0000</b>	<b>84.2743</b>

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**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
<b>Total</b>	<b>1.9400e-003</b>	<b>1.4100e-003</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>4.5500e-003</b>	<b>3.0000e-005</b>	<b>4.5800e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.9470</b>	<b>3.9470</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.9496</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2958	0.0000	0.2958	0.1157	0.0000	0.1157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7840	171.7840	0.0556	0.0000	173.1730
<b>Total</b>	<b>0.1142</b>	<b>1.2236</b>	<b>0.9148</b>	<b>1.9600e-003</b>	<b>0.2958</b>	<b>0.0515</b>	<b>0.3473</b>	<b>0.1157</b>	<b>0.0474</b>	<b>0.1631</b>	<b>0.0000</b>	<b>171.7840</b>	<b>171.7840</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1730</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
<b>Total</b>	<b>2.7100e-003</b>	<b>1.9700e-003</b>	<b>0.0206</b>	<b>6.0000e-005</b>	<b>6.9100e-003</b>	<b>4.0000e-005</b>	<b>6.9500e-003</b>	<b>1.8300e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.5258</b>	<b>5.5258</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.5294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1153	0.0000	0.1153	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7838	171.7838	0.0556	0.0000	173.1727
<b>Total</b>	<b>0.1142</b>	<b>1.2236</b>	<b>0.9148</b>	<b>1.9600e-003</b>	<b>0.1153</b>	<b>0.0515</b>	<b>0.1668</b>	<b>0.0451</b>	<b>0.0474</b>	<b>0.0925</b>	<b>0.0000</b>	<b>171.7838</b>	<b>171.7838</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1727</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.3700e-003	4.0000e-005	6.4100e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
<b>Total</b>	<b>2.7100e-003</b>	<b>1.9700e-003</b>	<b>0.0206</b>	<b>6.0000e-005</b>	<b>6.3700e-003</b>	<b>4.0000e-005</b>	<b>6.4100e-003</b>	<b>1.7000e-003</b>	<b>4.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>5.5258</b>	<b>5.5258</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.5294</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1572	0.0000	0.1572	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.1572</b>	<b>0.0121</b>	<b>0.1694</b>	<b>0.0396</b>	<b>0.0111</b>	<b>0.0507</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

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**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
<b>Total</b>	<b>6.9000e-004</b>	<b>4.8000e-004</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>1.8600e-003</b>	<b>1.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.4351</b>	<b>1.4351</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4360</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0613	0.0000	0.0613	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.0613</b>	<b>0.0121</b>	<b>0.0734</b>	<b>0.0154</b>	<b>0.0111</b>	<b>0.0266</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

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**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
<b>Total</b>	<b>6.9000e-004</b>	<b>4.8000e-004</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>1.7200e-003</b>	<b>1.0000e-005</b>	<b>1.7300e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4351</b>	<b>1.4351</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4360</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9697	130.9697	0.0312	0.0000	131.7486
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9697</b>	<b>130.9697</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7486</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3316	3.6500e-003	0.3353	0.0957	3.4900e-003	0.0992	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.4775	9.1000e-003	1.4866	0.3924	8.3800e-003	0.4008	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
<b>Total</b>	<b>0.6413</b>	<b>4.1162</b>	<b>4.8682</b>	<b>0.0260</b>	<b>1.8091</b>	<b>0.0128</b>	<b>1.8219</b>	<b>0.4881</b>	<b>0.0119</b>	<b>0.5000</b>	<b>0.0000</b>	<b>2,426.1151</b>	<b>2,426.1151</b>	<b>0.0975</b>	<b>0.0000</b>	<b>2,428.5514</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9695	130.9695	0.0312	0.0000	131.7484
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9695</b>	<b>130.9695</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7484</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3105	3.6500e-003	0.3142	0.0905	3.4900e-003	0.0940	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.3623	9.1000e-003	1.3714	0.3641	8.3800e-003	0.3725	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
<b>Total</b>	<b>0.6413</b>	<b>4.1162</b>	<b>4.8682</b>	<b>0.0260</b>	<b>1.6728</b>	<b>0.0128</b>	<b>1.6855</b>	<b>0.4547</b>	<b>0.0119</b>	<b>0.4665</b>	<b>0.0000</b>	<b>2,426.1151</b>	<b>2,426.1151</b>	<b>0.0975</b>	<b>0.0000</b>	<b>2,428.5514</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1209	90.1209	0.0292	0.0000	90.8496
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1033</b>	<b>0.4586</b>	<b>0.6563</b>	<b>1.0300e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>90.1209</b>	<b>90.1209</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8496</b>



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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
<b>Total</b>	<b>2.7200e-003</b>	<b>1.9000e-003</b>	<b>0.0202</b>	<b>6.0000e-005</b>	<b>7.4000e-003</b>	<b>5.0000e-005</b>	<b>7.4500e-003</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>5.6982</b>	<b>5.6982</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.7017</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1208	90.1208	0.0292	0.0000	90.8495
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1033</b>	<b>0.4586</b>	<b>0.6563</b>	<b>1.0300e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0211</b>	<b>0.0211</b>	<b>0.0000</b>	<b>90.1208</b>	<b>90.1208</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8495</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
<b>Total</b>	<b>2.7200e-003</b>	<b>1.9000e-003</b>	<b>0.0202</b>	<b>6.0000e-005</b>	<b>6.8200e-003</b>	<b>5.0000e-005</b>	<b>6.8700e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.6982</b>	<b>5.6982</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>5.7017</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
<b>Total</b>	<b>1.5055</b>	<b>0.0586</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>11.5068</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2354	1.4500e-003	0.2368	0.0625	1.3300e-003	0.0638	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
<b>Total</b>	<b>0.0865</b>	<b>0.0604</b>	<b>0.6429</b>	<b>2.0000e-003</b>	<b>0.2354</b>	<b>1.4500e-003</b>	<b>0.2368</b>	<b>0.0625</b>	<b>1.3300e-003</b>	<b>0.0638</b>	<b>0.0000</b>	<b>181.2031</b>	<b>181.2031</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>181.3129</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
<b>Total</b>	<b>1.5055</b>	<b>0.0586</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>		<b>3.1900e-003</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>11.5068</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2170	1.4500e-003	0.2184	0.0580	1.3300e-003	0.0593	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
<b>Total</b>	<b>0.0865</b>	<b>0.0604</b>	<b>0.6429</b>	<b>2.0000e-003</b>	<b>0.2170</b>	<b>1.4500e-003</b>	<b>0.2184</b>	<b>0.0580</b>	<b>1.3300e-003</b>	<b>0.0593</b>	<b>0.0000</b>	<b>181.2031</b>	<b>181.2031</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>181.3129</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6108	48.3557	41.1087	0.3347	21.9302	0.4022	22.3325	5.9760	0.3826	6.3586	0.0000	32,704.41 12	32,704.41 12	1.7616	0.0000	32,748.44 99
Unmitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.83 05	32,824.83 05	1.7626	0.0000	32,868.89 52

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
<b>Total</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>7,232.02</b>	<b>55,640,457</b>	<b>55,168,411</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,582.5592	5,582.5592	0.3172	0.0656	5,610.0433
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,792.8584	5,792.8584	0.3291	0.0681	5,821.3778
Natural Gas Mitigated	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.6711	1,154.6711	0.0221	0.0212	1,161.5327
Natural Gas Unmitigated	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	1,277.0948	1,277.0948	0.0245	0.0234	1,284.6839

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.08591e+006	0.0113	0.1023	0.0859	6.1000e-004		7.7700e-003	7.7700e-003		7.7700e-003	7.7700e-003	0.0000	111.3123	111.3123	2.1300e-003	2.0400e-003	111.9738
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.73041e+007	0.0933	0.8482	0.7125	5.0900e-003		0.0645	0.0645		0.0645	0.0645	0.0000	923.4150	923.4150	0.0177	0.0169	928.9024
Unrefrigerated Warehouse-No Rail	4.54179e+006	0.0245	0.2226	0.1870	1.3400e-003		0.0169	0.0169		0.0169	0.0169	0.0000	242.3674	242.3674	4.6500e-003	4.4400e-003	243.8077
<b>Total</b>		<b>0.1291</b>	<b>1.1731</b>	<b>0.9854</b>	<b>7.0400e-003</b>		<b>0.0892</b>	<b>0.0892</b>		<b>0.0892</b>	<b>0.0892</b>	<b>0.0000</b>	<b>1,277.0948</b>	<b>1,277.0948</b>	<b>0.0245</b>	<b>0.0234</b>	<b>1,284.6839</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.46014e+006	7.8700e-003	0.0716	0.0601	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9186	77.9186	1.4900e-003	1.4300e-003	78.3817
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.69782e+007	0.0916	0.8323	0.6991	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	906.0207	906.0207	0.0174	0.0166	911.4048
Unrefrigerated Warehouse-No Rail	3.19939e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7317	170.7317	3.2700e-003	3.1300e-003	171.7463
<b>Total</b>		<b>0.1167</b>	<b>1.0607</b>	<b>0.8910</b>	<b>6.3600e-003</b>		<b>0.0806</b>	<b>0.0806</b>		<b>0.0806</b>	<b>0.0806</b>	<b>0.0000</b>	<b>1,154.6711</b>	<b>1,154.6711</b>	<b>0.0221</b>	<b>0.0212</b>	<b>1,161.5327</b>



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.72274e+006	1,324.9953	0.0753	0.0156	1,331.5186
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.33559e+007	3,092.3104	0.1757	0.0364	3,107.5345
Unrefrigerated Warehouse-No Rail	5.28012e+006	1,222.5140	0.0695	0.0144	1,228.5327
<b>Total</b>		<b>5,792.8584</b>	<b>0.3291</b>	<b>0.0681</b>	<b>5,821.3778</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.1691e+006	1,196.8104	0.0680	0.0141	1,202.7025
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.32496e+007	3,067.6958	0.1743	0.0361	3,082.7987
Unrefrigerated Warehouse-No Rail	5.03177e+006	1,165.0144	0.0662	0.0137	1,170.7500
<b>Total</b>		<b>5,582.5592</b>	<b>0.3172</b>	<b>0.0656</b>	<b>5,610.0433</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	11.7484	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Unmitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
<b>Total</b>	<b>13.0956</b>	<b>5.9000e-004</b>	<b>0.0648</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.1260</b>	<b>0.1260</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.1342</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1497					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
<b>Total</b>	<b>11.7484</b>	<b>5.9000e-004</b>	<b>0.0648</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.1260</b>	<b>0.1260</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.1342</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,138.644 0	20.6135	0.5069	2,805.043 6
Unmitigated	2,489.504 6	24.0360	0.5910	3,266.535 4

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.4075	44.7777	2.5400e- 003	5.3000e- 004	44.9982
Industrial Park	139.011 / 0	463.1896	4.5535	0.1119	610.3678
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	77.3092 / 0	257.5964	2.5324	0.0622	339.4475
Unrefrigerated Warehouse-No Rail	517.385 / 0	1,723.940 9	16.9476	0.4164	2,271.722 0
<b>Total</b>		<b>2,489.504 6</b>	<b>24.0360</b>	<b>0.5910</b>	<b>3,266.535 4</b>

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**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 16.3457	42.0463	2.3900e-003	4.9000e-004	42.2533
Industrial Park	119.216 / 0	397.2314	3.9051	0.0960	523.4514
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	66.3004 / 0	220.9147	2.1718	0.0534	291.1101
Unrefrigerated Warehouse-No Rail	443.709 / 0	1,478.4517	14.5343	0.3571	1,948.2288
<b>Total</b>		<b>2,138.6440</b>	<b>20.6135</b>	<b>0.5069</b>	<b>2,805.0436</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	321.1327	18.9784	0.0000	795.5927
Unmitigated	642.2654	37.9568	0.0000	1,591.185 4

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.26	0.2558	0.0151	0.0000	0.6337
Industrial Park	745.4	151.3095	8.9421	0.0000	374.8628
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	314.25	63.7899	3.7699	0.0000	158.0368
Unrefrigerated Warehouse-No Rail	2103.1	426.9103	25.2297	0.0000	1,057.652 2
<b>Total</b>		<b>642.2654</b>	<b>37.9568</b>	<b>0.0000</b>	<b>1,591.185 4</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Industrial Park	372.7	75.6547	4.4711	0.0000	187.4314
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	157.125	31.8950	1.8849	0.0000	79.0184
Unrefrigerated Warehouse-No Rail	1051.55	213.4552	12.6148	0.0000	528.8261
<b>Total</b>		<b>321.1327</b>	<b>18.9784</b>	<b>0.0000</b>	<b>795.5927</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Annual

**South Ontario Logistics Center Phase 2 - No Mitigation**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use  $4178/474.107$  ksf= $8.8123567042882724785755114351824$ , truck trip rate shown under unrefrigerated w/h  $1036/1536.163$  ksf =  $0.67440759867279709249604371411107$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

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tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12
tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00

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tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37

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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004

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tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40

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tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006



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tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03

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tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003

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tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22

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tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

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tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

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tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

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tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09



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tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14

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tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

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tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003

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tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

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tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

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tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

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tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03



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tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003

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tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

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tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

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tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003

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tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

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tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

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tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

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tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09



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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06

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tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

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tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

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tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01

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tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

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tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14

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tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

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tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29



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tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005

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tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

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tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12

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tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003
tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04

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tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

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tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21

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tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94
tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004

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tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004



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tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02

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tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

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tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

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tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

## 2.0 Emissions Summary

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South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-5-2023	10-4-2023	1.0561	1.0561
2	10-5-2023	1-4-2024	1.2716	1.2716
3	1-5-2024	4-4-2024	4.2310	4.2310
4	4-5-2024	7-4-2024	6.3097	6.3097
		Highest	6.3097	6.3097

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	5,002.8779	5,002.8779	0.2508	0.0647	5,028.4134
Mobile	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Offroad	1.4080	13.0973	15.8459	0.0257		0.7136	0.7136		0.6565	0.6565	0.0000	2,260.6232	2,260.6232	0.7311	0.0000	2,278.9014
Waste						0.0000	0.0000		0.0000	0.0000	456.4313	0.0000	456.4313	26.9743	0.0000	1,130.7892
Water						0.0000	0.0000		0.0000	0.0000	164.3236	1,592.4451	1,756.7686	16.9681	0.4172	2,305.3067
<b>Total</b>	<b>12.0116</b>	<b>49.8292</b>	<b>45.5356</b>	<b>0.2736</b>	<b>16.0417</b>	<b>1.0664</b>	<b>17.1081</b>	<b>4.3723</b>	<b>0.9951</b>	<b>5.3674</b>	<b>620.7548</b>	<b>32,608.0631</b>	<b>33,228.8179</b>	<b>46.1797</b>	<b>0.4819</b>	<b>34,526.9119</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	4,757.9333	4,757.9333	0.2402	0.0612	4,782.1738
Mobile	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Offroad	1.4080	13.0973	15.8459	0.0257		0.7136	0.7136		0.6565	0.6565	0.0000	2,260.6232	2,260.6232	0.7311	0.0000	2,278.9014
Waste						0.0000	0.0000		0.0000	0.0000	228.2156	0.0000	228.2156	13.4872	0.0000	565.3946
Water						0.0000	0.0000		0.0000	0.0000	131.4589	1,278.2546	1,409.7134	13.5747	0.3338	1,848.5650
<b>Total</b>	<b>12.0027</b>	<b>49.7489</b>	<b>45.4681</b>	<b>0.2731</b>	<b>16.0417</b>	<b>1.0603</b>	<b>17.1020</b>	<b>4.3723</b>	<b>0.9890</b>	<b>5.3613</b>	<b>359.6745</b>	<b>32,048.9280</b>	<b>32,408.6025</b>	<b>29.2885</b>	<b>0.3950</b>	<b>33,258.5360</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.16</b>	<b>0.15</b>	<b>0.18</b>	<b>0.00</b>	<b>0.57</b>	<b>0.04</b>	<b>0.00</b>	<b>0.61</b>	<b>0.11</b>	<b>42.06</b>	<b>1.71</b>	<b>2.47</b>	<b>36.58</b>	<b>18.02</b>	<b>3.67</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 30.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)**

**OffRoad Equipment**



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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
<b>Total</b>	<b>0.0665</b>	<b>0.6881</b>	<b>0.4561</b>	<b>9.5000e-004</b>	<b>0.4517</b>	<b>0.0317</b>	<b>0.4833</b>	<b>0.2483</b>	<b>0.0291</b>	<b>0.2774</b>	<b>0.0000</b>	<b>83.6267</b>	<b>83.6267</b>	<b>0.0271</b>	<b>0.0000</b>	<b>84.3029</b>

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**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
<b>Total</b>	<b>1.8100e-003</b>	<b>1.2700e-003</b>	<b>0.0135</b>	<b>4.0000e-005</b>	<b>4.9300e-003</b>	<b>3.0000e-005</b>	<b>4.9600e-003</b>	<b>1.3100e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>3.7988</b>	<b>3.7988</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.8011</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
<b>Total</b>	<b>0.0665</b>	<b>0.6881</b>	<b>0.4561</b>	<b>9.5000e-004</b>	<b>0.1762</b>	<b>0.0317</b>	<b>0.2078</b>	<b>0.0968</b>	<b>0.0291</b>	<b>0.1259</b>	<b>0.0000</b>	<b>83.6266</b>	<b>83.6266</b>	<b>0.0271</b>	<b>0.0000</b>	<b>84.3028</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
<b>Total</b>	<b>1.8100e-003</b>	<b>1.2700e-003</b>	<b>0.0135</b>	<b>4.0000e-005</b>	<b>4.5500e-003</b>	<b>3.0000e-005</b>	<b>4.5800e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.7988</b>	<b>3.7988</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.8011</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3409	0.0000	0.3409	0.1406	0.0000	0.1406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6873	212.6873	0.0688	0.0000	214.4070
<b>Total</b>	<b>0.1296</b>	<b>1.3461</b>	<b>1.0940</b>	<b>2.4200e-003</b>	<b>0.3409</b>	<b>0.0556</b>	<b>0.3965</b>	<b>0.1406</b>	<b>0.0511</b>	<b>0.1917</b>	<b>0.0000</b>	<b>212.6873</b>	<b>212.6873</b>	<b>0.0688</b>	<b>0.0000</b>	<b>214.4070</b>

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**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	8.5500e-003	5.0000e-005	8.6100e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
<b>Total</b>	<b>3.1400e-003</b>	<b>2.2000e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>8.5500e-003</b>	<b>5.0000e-005</b>	<b>8.6100e-003</b>	<b>2.2700e-003</b>	<b>5.0000e-005</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>6.5846</b>	<b>6.5846</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.5886</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1330	0.0000	0.1330	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6871	212.6871	0.0688	0.0000	214.4067
<b>Total</b>	<b>0.1296</b>	<b>1.3461</b>	<b>1.0940</b>	<b>2.4200e-003</b>	<b>0.1330</b>	<b>0.0556</b>	<b>0.1885</b>	<b>0.0548</b>	<b>0.0511</b>	<b>0.1059</b>	<b>0.0000</b>	<b>212.6871</b>	<b>212.6871</b>	<b>0.0688</b>	<b>0.0000</b>	<b>214.4067</b>

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**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	7.8900e-003	5.0000e-005	7.9400e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
<b>Total</b>	<b>3.1400e-003</b>	<b>2.2000e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.8900e-003</b>	<b>5.0000e-005</b>	<b>7.9400e-003</b>	<b>2.1100e-003</b>	<b>5.0000e-005</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.5846</b>	<b>6.5846</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.5886</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1121	0.0000	0.1121	0.0148	0.0000	0.0148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
<b>Total</b>	<b>3.2200e-003</b>	<b>0.0324</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.1121</b>	<b>1.3400e-003</b>	<b>0.1134</b>	<b>0.0148</b>	<b>1.2300e-003</b>	<b>0.0160</b>	<b>0.0000</b>	<b>5.4520</b>	<b>5.4520</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4960</b>

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**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1634</b>	<b>0.1634</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1635</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0437	0.0000	0.0437	5.7600e-003	0.0000	5.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
<b>Total</b>	<b>3.2200e-003</b>	<b>0.0324</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0437</b>	<b>1.3400e-003</b>	<b>0.0451</b>	<b>5.7600e-003</b>	<b>1.2300e-003</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>5.4520</b>	<b>5.4520</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4960</b>

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**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1634</b>	<b>0.1634</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1635</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3834	148.3834	0.0351	0.0000	149.2606
<b>Total</b>	<b>0.0942</b>	<b>0.8604</b>	<b>1.0347</b>	<b>1.7200e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>148.3834</b>	<b>148.3834</b>	<b>0.0351</b>	<b>0.0000</b>	<b>149.2606</b>



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**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2647	2.9000e-003	0.2676	0.0764	2.7700e-003	0.0792	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.1789	7.1900e-003	1.1861	0.3131	6.6200e-003	0.3197	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
<b>Total</b>	<b>0.4856</b>	<b>3.2717</b>	<b>3.6365</b>	<b>0.0204</b>	<b>1.4436</b>	<b>0.0101</b>	<b>1.4537</b>	<b>0.3895</b>	<b>9.3900e-003</b>	<b>0.3989</b>	<b>0.0000</b>	<b>1,905.5407</b>	<b>1,905.5407</b>	<b>0.0758</b>	<b>0.0000</b>	<b>1,907.4358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3833	148.3833	0.0351	0.0000	149.2605
<b>Total</b>	<b>0.0942</b>	<b>0.8604</b>	<b>1.0347</b>	<b>1.7200e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>148.3833</b>	<b>148.3833</b>	<b>0.0351</b>	<b>0.0000</b>	<b>149.2605</b>

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**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2478	2.9000e-003	0.2507	0.0723	2.7700e-003	0.0750	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.0870	7.1900e-003	1.0941	0.2905	6.6200e-003	0.2972	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
<b>Total</b>	<b>0.4856</b>	<b>3.2717</b>	<b>3.6365</b>	<b>0.0204</b>	<b>1.3348</b>	<b>0.0101</b>	<b>1.3449</b>	<b>0.3628</b>	<b>9.3900e-003</b>	<b>0.3722</b>	<b>0.0000</b>	<b>1,905.5407</b>	<b>1,905.5407</b>	<b>0.0758</b>	<b>0.0000</b>	<b>1,907.4358</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1194	90.1194	0.0292	0.0000	90.8481
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0842</b>	<b>0.4286</b>	<b>0.6582</b>	<b>1.0300e-003</b>		<b>0.0211</b>	<b>0.0211</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>90.1194</b>	<b>90.1194</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8481</b>

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**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
<b>Total</b>	<b>2.5600e-003</b>	<b>1.7200e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>7.4000e-003</b>	<b>5.0000e-005</b>	<b>7.4500e-003</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>5.5134</b>	<b>5.5134</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>5.5165</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1193	90.1193	0.0292	0.0000	90.8479
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0842</b>	<b>0.4286</b>	<b>0.6582</b>	<b>1.0300e-003</b>		<b>0.0211</b>	<b>0.0211</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>90.1193</b>	<b>90.1193</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8479</b>

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**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
<b>Total</b>	<b>2.5600e-003</b>	<b>1.7200e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>6.8200e-003</b>	<b>5.0000e-005</b>	<b>6.8700e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.5134</b>	<b>5.5134</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>5.5165</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
<b>Total</b>	<b>5.2908</b>	<b>0.0549</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>11.5058</b>

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**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1658	1.0100e-003	0.1668	0.0440	9.3000e-004	0.0450	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
<b>Total</b>	<b>0.0574</b>	<b>0.0386</b>	<b>0.4216</b>	<b>1.3700e-003</b>	<b>0.1658</b>	<b>1.0100e-003</b>	<b>0.1668</b>	<b>0.0440</b>	<b>9.3000e-004</b>	<b>0.0450</b>	<b>0.0000</b>	<b>123.4995</b>	<b>123.4995</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>123.5701</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
<b>Total</b>	<b>5.2908</b>	<b>0.0549</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>11.5058</b>

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**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1529	1.0100e-003	0.1539	0.0409	9.3000e-004	0.0418	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
<b>Total</b>	<b>0.0574</b>	<b>0.0386</b>	<b>0.4216</b>	<b>1.3700e-003</b>	<b>0.1529</b>	<b>1.0100e-003</b>	<b>0.1539</b>	<b>0.0409</b>	<b>9.3000e-004</b>	<b>0.0418</b>	<b>0.0000</b>	<b>123.4995</b>	<b>123.4995</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>123.5701</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Unmitigated	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>40,329,437</b>	<b>40,329,437</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,957.1768	3,957.1768	0.2248	0.0465	3,976.6588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,114.6557	4,114.6557	0.2338	0.0484	4,134.9129
Natural Gas Mitigated	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	800.7565	800.7565	0.0154	0.0147	805.5150
Natural Gas Unmitigated	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	888.2222	888.2222	0.0170	0.0163	893.5005



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.64515e+006	8.8700e-003	0.0806	0.0677	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.7915	87.7915	1.6800e-003	1.6100e-003	88.3132
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.18811e+007	0.0641	0.5824	0.4892	3.4900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	634.0204	634.0204	0.0122	0.0116	637.7881
Unrefrigerated Warehouse-No Rail	3.11841e+006	0.0168	0.1529	0.1284	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.4103	166.4103	3.1900e-003	3.0500e-003	167.3992
<b>Total</b>		<b>0.0897</b>	<b>0.8159</b>	<b>0.6854</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>888.2222</b>	<b>888.2222</b>	<b>0.0170</b>	<b>0.0163</b>	<b>893.5005</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.15161e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4541	61.4541	1.1800e-003	1.1300e-003	61.8193
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.16573e+007	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0774	622.0774	0.0119	0.0114	625.7741
Unrefrigerated Warehouse-No Rail	2.19671e+006	0.0119	0.1077	0.0905	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003	0.0000	117.2250	117.2250	2.2500e-003	2.1500e-003	117.9216
<b>Total</b>		<b>0.0809</b>	<b>0.7356</b>	<b>0.6179</b>	<b>4.4200e-003</b>		<b>0.0559</b>	<b>0.0559</b>		<b>0.0559</b>	<b>0.0559</b>	<b>0.0000</b>	<b>800.7565</b>	<b>800.7565</b>	<b>0.0154</b>	<b>0.0147</b>	<b>805.5150</b>

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.5135e+006	1,045.0180	0.0594	0.0123	1,050.1628
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.1702e+006	2,123.1926	0.1206	0.0250	2,133.6455
Unrefrigerated Warehouse-No Rail	3.62534e+006	839.3822	0.0477	9.8700e-003	843.5146
<b>Total</b>		<b>4,114.6557</b>	<b>0.2338</b>	<b>0.0484</b>	<b>4,134.9129</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.07685e+006	943.9191	0.0536	0.0111	948.5662
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.09721e+006	2,106.2921	0.1197	0.0248	2,116.6618
Unrefrigerated Warehouse-No Rail	3.45483e+006	799.9028	0.0455	9.4000e-003	803.8409
<b>Total</b>		<b>3,957.1768</b>	<b>0.2248</b>	<b>0.0465</b>	<b>3,976.6588</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Unmitigated	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
<b>Total</b>	<b>8.7156</b>	<b>4.1000e-004</b>	<b>0.0455</b>	<b>0.0000</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0886</b>	<b>0.0886</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0944</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
<b>Total</b>	<b>8.7156</b>	<b>4.1000e-004</b>	<b>0.0455</b>	<b>0.0000</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0886</b>	<b>0.0886</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0944</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.713 4	13.5747	0.3338	1,848.565 0
Unmitigated	1,756.768 6	16.9681	0.4172	2,305.306 7

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 12.022	30.9245	1.7600e-003	3.6000e-004	31.0768
Industrial Park	109.638 / 0	365.3167	3.5913	0.0882	481.3958
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.0811 / 0	176.8678	1.7387	0.0427	233.0674
Unrefrigerated Warehouse-No Rail	355.237 / 0	1,183.659 6	11.6363	0.2859	1,559.766 7
<b>Total</b>		<b>1,756.768 6</b>	<b>16.9681</b>	<b>0.4172</b>	<b>2,305.306 7</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.2887	29.0381	1.6500e-003	3.4000e-004	29.1811
Industrial Park	87.7104 / 0	292.2533	2.8731	0.0706	385.1167
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	42.4649 / 0	141.4942	1.3910	0.0342	186.4539
Unrefrigerated Warehouse-No Rail	284.19 / 0	946.9277	9.3090	0.2287	1,247.8134
<b>Total</b>		<b>1,409.7134</b>	<b>13.5747</b>	<b>0.3338</b>	<b>1,848.5650</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services



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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	228.2156	13.4872	0.0000	565.3946
Unmitigated	456.4313	26.9743	0.0000	1,130.789 2

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.87	0.1766	0.0104	0.0000	0.4375
Industrial Park	587.9	119.3384	7.0527	0.0000	295.6558
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	215.77	43.7994	2.5885	0.0000	108.5111
Unrefrigerated Warehouse-No Rail	1443.99	293.1169	17.3227	0.0000	726.1848
<b>Total</b>		<b>456.4313</b>	<b>26.9743</b>	<b>0.0000</b>	<b>1,130.789 1</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.435	0.0883	5.2200e-003	0.0000	0.2188
Industrial Park	293.95	59.6692	3.5264	0.0000	147.8279
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	107.885	21.8997	1.2942	0.0000	54.2555
Unrefrigerated Warehouse-No Rail	721.995	146.5585	8.6614	0.0000	363.0924
<b>Total</b>		<b>228.2156</b>	<b>13.4872</b>	<b>0.0000</b>	<b>565.3946</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

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**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.1815	11.0815	14.2896	0.0192		0.6400	0.6400		0.5888	0.5888	0.0000	1,684.335 3	1,684.335 3	0.5448	0.0000	1,697.954 0
Tractors/Loaders/Backhoes	0.2265	2.0158	1.5563	6.5600e-003		0.0737	0.0737		0.0678	0.0678	0.0000	576.2878	576.2878	0.1864	0.0000	580.9474
<b>Total</b>	<b>1.4080</b>	<b>13.0973</b>	<b>15.8459</b>	<b>0.0257</b>		<b>0.7136</b>	<b>0.7136</b>		<b>0.6565</b>	<b>0.6565</b>	<b>0.0000</b>	<b>2,260.623 2</b>	<b>2,260.623 2</b>	<b>0.7311</b>	<b>0.0000</b>	<b>2,278.901 4</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	510.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as  $513 \cdot 25 \cdot 0.029 \cdot 298 \cdot 0.00617 = 510.44$  to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use  $4178/474.107 \text{ ksf} = 8.8123567042882724785755114351824$ , truck trip rate shown under unrefrigerated w/h  $1036/1536.163 \text{ ksf} = 0.67440759867279709249604371411107$

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize "Super-Compliant" low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

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tblAreaCoating	Area_EF_Parking	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
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tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
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tblFleetMix	LHD2	4.7940e-003	0.22
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tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

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tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
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tblVehicleEF	HHD	0.06	0.03
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tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.06	0.18
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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.03	0.20
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tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16

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tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003

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tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

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tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30



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tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25

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tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

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tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

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tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004

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tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

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tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03



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tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02

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tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

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tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

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tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

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tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77

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tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

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tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10



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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

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tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

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tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

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tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

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tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01

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tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005

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tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26



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tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08

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tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
tblVehicleEF	OBUS	70.20	19.56
tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004

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tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29

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tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003

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tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94



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tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06

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tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003

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tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

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tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

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tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

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tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-5-2023	10-4-2023	1.0561	1.0561
2	10-5-2023	1-4-2024	1.2716	1.2716
3	1-5-2024	4-4-2024	2.9230	2.9230
4	4-5-2024	7-4-2024	3.4588	3.4588
		Highest	3.4588	3.4588

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	5,002.8779	5,002.8779	0.2508	0.0647	5,028.4134
Mobile	1.6360	24.6704	27.1440	0.1870	14.1744	0.2071	14.3814	3.8373	0.1964	4.0338	0.0000	18,113.7643	18,113.7643	0.8671	0.0000	18,135.4413
Waste						0.0000	0.0000		0.0000	0.0000	456.4313	0.0000	456.4313	26.9743	0.0000	1,130.7892
Water						0.0000	0.0000		0.0000	0.0000	164.3236	1,592.4451	1,756.7686	16.9681	0.4172	2,305.3067
<b>Total</b>	<b>10.0187</b>	<b>25.4868</b>	<b>27.8749</b>	<b>0.1919</b>	<b>14.1744</b>	<b>0.2692</b>	<b>14.4436</b>	<b>3.8373</b>	<b>0.2586</b>	<b>4.0959</b>	<b>620.7548</b>	<b>24,709.1759</b>	<b>25,329.9307</b>	<b>45.0605</b>	<b>0.4819</b>	<b>26,600.0450</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	4,757.9333	4,757.9333	0.2402	0.0612	4,782.1738
Mobile	1.6324	24.5551	26.9577	0.1857	14.0604	0.2059	14.2662	3.8067	0.1953	4.0020	0.0000	17,995.9151	17,995.9151	0.8629	0.0000	18,017.4869
Waste						0.0000	0.0000		0.0000	0.0000	228.2156	0.0000	228.2156	13.4872	0.0000	565.3946
Water						0.0000	0.0000		0.0000	0.0000	131.4589	1,278.2546	1,409.7134	13.5747	0.3338	1,848.5650
<b>Total</b>	<b>10.0062</b>	<b>25.2910</b>	<b>27.6211</b>	<b>0.1902</b>	<b>14.0604</b>	<b>0.2619</b>	<b>14.3223</b>	<b>3.8067</b>	<b>0.2514</b>	<b>4.0580</b>	<b>359.6745</b>	<b>24,032.1916</b>	<b>24,391.8660</b>	<b>28.1651</b>	<b>0.3950</b>	<b>25,213.7147</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.12</b>	<b>0.77</b>	<b>0.91</b>	<b>0.90</b>	<b>0.80</b>	<b>2.72</b>	<b>0.84</b>	<b>0.80</b>	<b>2.80</b>	<b>0.92</b>	<b>42.06</b>	<b>2.74</b>	<b>3.70</b>	<b>37.49</b>	<b>18.02</b>	<b>5.21</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 200**

**Acres of Paving: 30.33**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
<b>Total</b>	<b>0.0665</b>	<b>0.6881</b>	<b>0.4561</b>	<b>9.5000e-004</b>	<b>0.4517</b>	<b>0.0317</b>	<b>0.4833</b>	<b>0.2483</b>	<b>0.0291</b>	<b>0.2774</b>	<b>0.0000</b>	<b>83.6267</b>	<b>83.6267</b>	<b>0.0271</b>	<b>0.0000</b>	<b>84.3029</b>

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**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
<b>Total</b>	<b>1.8100e-003</b>	<b>1.2700e-003</b>	<b>0.0135</b>	<b>4.0000e-005</b>	<b>4.9300e-003</b>	<b>3.0000e-005</b>	<b>4.9600e-003</b>	<b>1.3100e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>3.7988</b>	<b>3.7988</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.8011</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
<b>Total</b>	<b>0.0665</b>	<b>0.6881</b>	<b>0.4561</b>	<b>9.5000e-004</b>	<b>0.1762</b>	<b>0.0317</b>	<b>0.2078</b>	<b>0.0968</b>	<b>0.0291</b>	<b>0.1259</b>	<b>0.0000</b>	<b>83.6266</b>	<b>83.6266</b>	<b>0.0271</b>	<b>0.0000</b>	<b>84.3028</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
<b>Total</b>	<b>1.8100e-003</b>	<b>1.2700e-003</b>	<b>0.0135</b>	<b>4.0000e-005</b>	<b>4.5500e-003</b>	<b>3.0000e-005</b>	<b>4.5800e-003</b>	<b>1.2200e-003</b>	<b>3.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.7988</b>	<b>3.7988</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.8011</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3409	0.0000	0.3409	0.1406	0.0000	0.1406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6873	212.6873	0.0688	0.0000	214.4070
<b>Total</b>	<b>0.1296</b>	<b>1.3461</b>	<b>1.0940</b>	<b>2.4200e-003</b>	<b>0.3409</b>	<b>0.0556</b>	<b>0.3965</b>	<b>0.1406</b>	<b>0.0511</b>	<b>0.1917</b>	<b>0.0000</b>	<b>212.6873</b>	<b>212.6873</b>	<b>0.0688</b>	<b>0.0000</b>	<b>214.4070</b>

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**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	8.5500e-003	5.0000e-005	8.6100e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
<b>Total</b>	<b>3.1400e-003</b>	<b>2.2000e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>8.5500e-003</b>	<b>5.0000e-005</b>	<b>8.6100e-003</b>	<b>2.2700e-003</b>	<b>5.0000e-005</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>6.5846</b>	<b>6.5846</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.5886</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1330	0.0000	0.1330	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6871	212.6871	0.0688	0.0000	214.4067
<b>Total</b>	<b>0.1296</b>	<b>1.3461</b>	<b>1.0940</b>	<b>2.4200e-003</b>	<b>0.1330</b>	<b>0.0556</b>	<b>0.1885</b>	<b>0.0548</b>	<b>0.0511</b>	<b>0.1059</b>	<b>0.0000</b>	<b>212.6871</b>	<b>212.6871</b>	<b>0.0688</b>	<b>0.0000</b>	<b>214.4067</b>

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**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	7.8900e-003	5.0000e-005	7.9400e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
<b>Total</b>	<b>3.1400e-003</b>	<b>2.2000e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.8900e-003</b>	<b>5.0000e-005</b>	<b>7.9400e-003</b>	<b>2.1100e-003</b>	<b>5.0000e-005</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.5846</b>	<b>6.5846</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.5886</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1121	0.0000	0.1121	0.0148	0.0000	0.0148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
<b>Total</b>	<b>3.2200e-003</b>	<b>0.0324</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.1121</b>	<b>1.3400e-003</b>	<b>0.1134</b>	<b>0.0148</b>	<b>1.2300e-003</b>	<b>0.0160</b>	<b>0.0000</b>	<b>5.4520</b>	<b>5.4520</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4960</b>



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**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1634</b>	<b>0.1634</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1635</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0437	0.0000	0.0437	5.7600e-003	0.0000	5.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
<b>Total</b>	<b>3.2200e-003</b>	<b>0.0324</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0437</b>	<b>1.3400e-003</b>	<b>0.0451</b>	<b>5.7600e-003</b>	<b>1.2300e-003</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>5.4520</b>	<b>5.4520</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4960</b>

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**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1634</b>	<b>0.1634</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1635</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3834	148.3834	0.0351	0.0000	149.2606
<b>Total</b>	<b>0.0942</b>	<b>0.8604</b>	<b>1.0347</b>	<b>1.7200e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>148.3834</b>	<b>148.3834</b>	<b>0.0351</b>	<b>0.0000</b>	<b>149.2606</b>

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**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2647	2.9000e-003	0.2676	0.0764	2.7700e-003	0.0792	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.1789	7.1900e-003	1.1861	0.3131	6.6200e-003	0.3197	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
<b>Total</b>	<b>0.4856</b>	<b>3.2717</b>	<b>3.6365</b>	<b>0.0204</b>	<b>1.4436</b>	<b>0.0101</b>	<b>1.4537</b>	<b>0.3895</b>	<b>9.3900e-003</b>	<b>0.3989</b>	<b>0.0000</b>	<b>1,905.5407</b>	<b>1,905.5407</b>	<b>0.0758</b>	<b>0.0000</b>	<b>1,907.4358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3833	148.3833	0.0351	0.0000	149.2605
<b>Total</b>	<b>0.0942</b>	<b>0.8604</b>	<b>1.0347</b>	<b>1.7200e-003</b>		<b>0.0393</b>	<b>0.0393</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>148.3833</b>	<b>148.3833</b>	<b>0.0351</b>	<b>0.0000</b>	<b>149.2605</b>

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**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2478	2.9000e-003	0.2507	0.0723	2.7700e-003	0.0750	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.0870	7.1900e-003	1.0941	0.2905	6.6200e-003	0.2972	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
<b>Total</b>	<b>0.4856</b>	<b>3.2717</b>	<b>3.6365</b>	<b>0.0204</b>	<b>1.3348</b>	<b>0.0101</b>	<b>1.3449</b>	<b>0.3628</b>	<b>9.3900e-003</b>	<b>0.3722</b>	<b>0.0000</b>	<b>1,905.5407</b>	<b>1,905.5407</b>	<b>0.0758</b>	<b>0.0000</b>	<b>1,907.4358</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1194	90.1194	0.0292	0.0000	90.8481
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0842</b>	<b>0.4286</b>	<b>0.6582</b>	<b>1.0300e-003</b>		<b>0.0211</b>	<b>0.0211</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>90.1194</b>	<b>90.1194</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8481</b>

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**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
<b>Total</b>	<b>2.5600e-003</b>	<b>1.7200e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>7.4000e-003</b>	<b>5.0000e-005</b>	<b>7.4500e-003</b>	<b>1.9700e-003</b>	<b>4.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>5.5134</b>	<b>5.5134</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>5.5165</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1193	90.1193	0.0292	0.0000	90.8479
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0842</b>	<b>0.4286</b>	<b>0.6582</b>	<b>1.0300e-003</b>		<b>0.0211</b>	<b>0.0211</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>90.1193</b>	<b>90.1193</b>	<b>0.0292</b>	<b>0.0000</b>	<b>90.8479</b>

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**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
<b>Total</b>	<b>2.5600e-003</b>	<b>1.7200e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>6.8200e-003</b>	<b>5.0000e-005</b>	<b>6.8700e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.5134</b>	<b>5.5134</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>5.5165</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
<b>Total</b>	<b>1.0647</b>	<b>0.0549</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>11.5058</b>

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**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1658	1.0100e-003	0.1668	0.0440	9.3000e-004	0.0450	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
<b>Total</b>	<b>0.0574</b>	<b>0.0386</b>	<b>0.4216</b>	<b>1.3700e-003</b>	<b>0.1658</b>	<b>1.0100e-003</b>	<b>0.1668</b>	<b>0.0440</b>	<b>9.3000e-004</b>	<b>0.0450</b>	<b>0.0000</b>	<b>123.4995</b>	<b>123.4995</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>123.5701</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
<b>Total</b>	<b>1.0647</b>	<b>0.0549</b>	<b>0.0815</b>	<b>1.3000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>11.5058</b>

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**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1529	1.0100e-003	0.1539	0.0409	9.3000e-004	0.0418	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
<b>Total</b>	<b>0.0574</b>	<b>0.0386</b>	<b>0.4216</b>	<b>1.3700e-003</b>	<b>0.1529</b>	<b>1.0100e-003</b>	<b>0.1539</b>	<b>0.0409</b>	<b>9.3000e-004</b>	<b>0.0418</b>	<b>0.0000</b>	<b>123.4995</b>	<b>123.4995</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>123.5701</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Ride Sharing Program



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6324	24.5551	26.9577	0.1857	14.0604	0.2059	14.2662	3.8067	0.1953	4.0020	0.0000	17,995.91 51	17,995.91 51	0.8629	0.0000	18,017.48 69
Unmitigated	1.6360	24.6704	27.1440	0.1870	14.1744	0.2071	14.3814	3.8373	0.1964	4.0338	0.0000	18,113.76 43	18,113.76 43	0.8671	0.0000	18,135.44 13

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
<b>Total</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>5,214.02</b>	<b>36,257,668</b>	<b>35,960,657</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,957.1768	3,957.1768	0.2248	0.0465	3,976.6588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,114.6557	4,114.6557	0.2338	0.0484	4,134.9129
Natural Gas Mitigated	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	800.7565	800.7565	0.0154	0.0147	805.5150
Natural Gas Unmitigated	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	888.2222	888.2222	0.0170	0.0163	893.5005

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.64515e+006	8.8700e-003	0.0806	0.0677	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.7915	87.7915	1.6800e-003	1.6100e-003	88.3132
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.18811e+007	0.0641	0.5824	0.4892	3.4900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	634.0204	634.0204	0.0122	0.0116	637.7881
Unrefrigerated Warehouse-No Rail	3.11841e+006	0.0168	0.1529	0.1284	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.4103	166.4103	3.1900e-003	3.0500e-003	167.3992
<b>Total</b>		<b>0.0897</b>	<b>0.8159</b>	<b>0.6854</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>888.2222</b>	<b>888.2222</b>	<b>0.0170</b>	<b>0.0163</b>	<b>893.5005</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.15161e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4541	61.4541	1.1800e-003	1.1300e-003	61.8193
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.16573e+007	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0774	622.0774	0.0119	0.0114	625.7741
Unrefrigerated Warehouse-No Rail	2.19671e+006	0.0119	0.1077	0.0905	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003	0.0000	117.2250	117.2250	2.2500e-003	2.1500e-003	117.9216
<b>Total</b>		<b>0.0809</b>	<b>0.7356</b>	<b>0.6179</b>	<b>4.4200e-003</b>		<b>0.0559</b>	<b>0.0559</b>		<b>0.0559</b>	<b>0.0559</b>	<b>0.0000</b>	<b>800.7565</b>	<b>800.7565</b>	<b>0.0154</b>	<b>0.0147</b>	<b>805.5150</b>

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.5135e+006	1,045.0180	0.0594	0.0123	1,050.1628
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.1702e+006	2,123.1926	0.1206	0.0250	2,133.6455
Unrefrigerated Warehouse-No Rail	3.62534e+006	839.3822	0.0477	9.8700e-003	843.5146
<b>Total</b>		<b>4,114.6557</b>	<b>0.2338</b>	<b>0.0484</b>	<b>4,134.9129</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.07685e+006	943.9191	0.0536	0.0111	948.5662
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.09721e+006	2,106.2921	0.1197	0.0248	2,116.6618
Unrefrigerated Warehouse-No Rail	3.45483e+006	799.9028	0.0455	9.4000e-003	803.8409
<b>Total</b>		<b>3,957.1768</b>	<b>0.2248</b>	<b>0.0465</b>	<b>3,976.6588</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Unmitigated	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
<b>Total</b>	<b>8.2930</b>	<b>4.1000e-004</b>	<b>0.0455</b>	<b>0.0000</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0886</b>	<b>0.0886</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0944</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
<b>Total</b>	<b>8.2930</b>	<b>4.1000e-004</b>	<b>0.0455</b>	<b>0.0000</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0886</b>	<b>0.0886</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.0944</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.713 4	13.5747	0.3338	1,848.565 0
Unmitigated	1,756.768 6	16.9681	0.4172	2,305.306 7

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 12.022	30.9245	1.7600e-003	3.6000e-004	31.0768
Industrial Park	109.638 / 0	365.3167	3.5913	0.0882	481.3958
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.0811 / 0	176.8678	1.7387	0.0427	233.0674
Unrefrigerated Warehouse-No Rail	355.237 / 0	1,183.659 6	11.6363	0.2859	1,559.766 7
<b>Total</b>		<b>1,756.768 6</b>	<b>16.9681</b>	<b>0.4172</b>	<b>2,305.306 7</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.2887	29.0381	1.6500e-003	3.4000e-004	29.1811
Industrial Park	87.7104 / 0	292.2533	2.8731	0.0706	385.1167
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	42.4649 / 0	141.4942	1.3910	0.0342	186.4539
Unrefrigerated Warehouse-No Rail	284.19 / 0	946.9277	9.3090	0.2287	1,247.8134
<b>Total</b>		<b>1,409.7134</b>	<b>13.5747</b>	<b>0.3338</b>	<b>1,848.5650</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	228.2156	13.4872	0.0000	565.3946
Unmitigated	456.4313	26.9743	0.0000	1,130.789 2

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.87	0.1766	0.0104	0.0000	0.4375
Industrial Park	587.9	119.3384	7.0527	0.0000	295.6558
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	215.77	43.7994	2.5885	0.0000	108.5111
Unrefrigerated Warehouse-No Rail	1443.99	293.1169	17.3227	0.0000	726.1848
<b>Total</b>		<b>456.4313</b>	<b>26.9743</b>	<b>0.0000</b>	<b>1,130.789 1</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.435	0.0883	5.2200e-003	0.0000	0.2188
Industrial Park	293.95	59.6692	3.5264	0.0000	147.8279
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	107.885	21.8997	1.2942	0.0000	54.2555
Unrefrigerated Warehouse-No Rail	721.995	146.5585	8.6614	0.0000	363.0924
<b>Total</b>		<b>228.2156</b>	<b>13.4872</b>	<b>0.0000</b>	<b>565.3946</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## GHG Emissions Reductions from Electric Forklifts

Equipment	Number of Equipment <sup>1</sup>	Hours per Day <sup>1</sup>	Days per Year <sup>1</sup>	Equipment Size <sup>2</sup> (hp)	Equipment Size (kW)	Load Factor <sup>2</sup>	SCE electricity emission factor <sup>3</sup> (MT CO <sub>2</sub> e/MWh)	Emissions (MT CO <sub>2</sub> e/year)
Forklifts	96	8	365	89	66.4	0.2	0.24	885.1
Yard Trucks	8	8	365	200	149.1	0.38	0.24	314.9
<b>Total</b>								<b>1,200.1</b>

Notes:

<sup>1</sup> Project-specific data.

<sup>2</sup> Equipment size and load factors based on CalEEMod Appendix D, Table 3.3.

<sup>3</sup> CO<sub>2</sub>e intensity factor for SCE accounts for the 33% projected RPS for 2020 consistent with SB 100.

Conversion Factors:

0.7457 kW/hp

1000 kW/MW

**APPENDIX B4**  
**ENERGY CALCULATIONS**

**Construction Fuel Consumption**

On-Site Diesel <sup>1</sup>	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	Current County Fuel	Percent
Demolition	68	6,739		
Site Preparation/Grading	608	59,872		
Building Construction	281	27,655		
Paving	182	17,892		
Architectural Coating	23	2,266		
<b>Total</b>	<b>1,161</b>	<b>114,424</b>	<b>245,228,890</b>	<b>0.0467%</b>

Off-Site Diesel <sup>1</sup>	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	Current County Fuel	Percent
Demolition	63	6,187		
Site Preparation/Grading	0	0		
Building Construction	2,319	228,443		
Paving	0	0		
Architectural Coating	0	0		
<b>Total</b>	<b>2,382</b>	<b>234,631</b>	<b>245,228,890</b>	<b>0.0957%</b>

Off-Site Gasoline <sup>2</sup>	MTCO <sub>2</sub> e	Gallons of Fuel <sup>4</sup>	Current County Fuel	Percent
Demolition	3	295		
Site Preparation/Grading	21	2,436		
Building Construction	2,017	228,910		
Paving	11	1,271		
Architectural Coating	305	34,563		
<b>Total</b>	<b>2,356</b>	<b>267,476</b>	<b>754,787,338</b>	<b>0.0354%</b>

Total Diesel Fuel		349,054	245,228,890	0.1423%
Total Gasoline Fuel		267,476	754,787,338	0.0354%
<b>Total Construction Fuel</b>	<b>5,899</b>	<b>616,530</b>		

Construction Phase <sup>3</sup>	Demolition			Site Preparation			Grading		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022 Phase 1	68	63	3	84	0	4	173	0	6
2023 Phase 1	0	0	0	0	0	0	47	0	1
2023 Phase 2	0	0	0	84	0	4	214	0	7
2024 Phase 2	0	0	0	0	0	0	5	0	0
<b>Total</b>	<b>68</b>	<b>63</b>	<b>3</b>	<b>168</b>	<b>0</b>	<b>8</b>	<b>440</b>	<b>0</b>	<b>14</b>

Construction Phase <sup>3</sup>	Building Construction			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022	0	0	0	0	0	0	0	0	0
2023	132	1290	1138	91	0	6	12	0	181
2024	0	0	0	0	0	0	0	0	0
2025	149	1029	879	91	0	6	12	0	124
<b>Total</b>	<b>281</b>	<b>2,319</b>	<b>2,017</b>	<b>182</b>	<b>0</b>	<b>11</b>	<b>23</b>	<b>0</b>	<b>305</b>

Notes:

<sup>1</sup> Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

<sup>2</sup> Fuel used for worker trips assumed to be gasoline.

<sup>3</sup> MTCO<sub>2</sub>e rates from CalEEMod (3.0 Construction Details).

<sup>4</sup> For CO<sub>2</sub>e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.



Operational Fuel - Phase 1

Vehicle Type	Percent <sup>1</sup>	Annual VMT <sup>2</sup>	MPG <sup>3</sup>	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons <sup>4</sup>	San Bernardino Percent	
Passenger Cars	1.00	34,755,263	21.6	1,609,040	Gas	754,787,338	0.2132%	1.0035%
Light/Medium Trucks	0.41	8,369,391	17.2	486,593	Diesel	245,228,890	0.1984%	
Heavy Trucks/Other	0.59	12,043,757	6.1	1,974,386	Diesel	245,228,890	0.8051%	
Total	2.00	55,168,411		4,070,019		1,000,016,228		

2,460,979

Land Use <sup>5</sup>	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	1	0	0	0	0	0	0	0	0	0	0	0	0
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

- <sup>1</sup> Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).
- <sup>2</sup> Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).
- <sup>3</sup> Average fuel economy derived from Department of Transportation.
- <sup>4</sup> Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Operational Fuel - Phase 2

Vehicle Type	Percent <sup>1</sup>	Annual VMT <sup>2</sup>	MPG <sup>3</sup>	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons <sup>4</sup>	San Bernardino Percent	
Passenger Cars	1.00	26,132,305	21.6	1,209,829	Gas	754,787,338	0.1603%	0.4832%
Light/Medium Trucks	0.41	4,029,624	17.2	234,280	Diesel	245,228,890	0.0955%	
Heavy Trucks/Other	0.59	5,798,728	6.1	950,611	Diesel	245,228,890	0.3876%	
Total	2.00	35,960,657		2,394,721		1,000,016,228		

1,184,892

Land Use <sup>5</sup>	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	1	0	0	0	0	0	0	0	0	0	0	0	0
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

- <sup>1</sup> Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).
- <sup>2</sup> Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).
- <sup>3</sup> Average fuel economy derived from Department of Transportation.
- <sup>4</sup> Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

**Operational Fuel - Project Buildout**

Vehicle Type	Percent <sup>1</sup>	Annual VMT <sup>2</sup>	MPG <sup>3</sup>	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons <sup>4</sup>	San Bernardino Percent	
Passenger Cars	1.00	60,887,568	21.6	2,818,869	Gas	754,787,338	0.3735%	3,645,871
Light/Medium Trucks	0.41	12,399,015	17.2	720,873	Diesel	245,228,890	0.2940%	
Heavy Trucks/Other	0.59	17,842,485	6.1	2,924,998	Diesel	245,228,890	1.1928%	
Total	2.00	91,129,068		6,464,739		1,000,016,228	1.4867%	

Land Use <sup>5</sup>	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	1	0	0	0	0	0	0	0	0	0	0	0	0
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

<sup>1</sup> Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

<sup>2</sup> Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

<sup>3</sup> Average fuel economy derived from Department of Transportation.

<sup>4</sup> Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

**Phase 1 - Operational Water Energy**

Mitigated Indoor	628.7	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	13,021	kWh/MG
Mitigated Outdoor	16	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	11,110	kWh/MG
Operational Water Energy	8,364,063	kWh

Land Use <sup>3</sup>	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	139	0	119	0
Refrigerated Warehouse	77	0	66	0
Unrefrigerated Warehouse	517	0	444	0
Parking Lot	0	0	0	0
Landscape	0	17	0	16
<b>Total Operational Water</b>	<b>734</b>	<b>17</b>	<b>629</b>	<b>16</b>

Notes:

<sup>1</sup> Indoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, distribution, and wastewater.

<sup>2</sup> Outdoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, and distribution.

<sup>3</sup> Operational water use values per CalEEMod (7.2 Water by Land Use).

**Phase 2 - Operational Water Energy**

Mitigated Indoor	413.7	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	13,021	kWh/MG
Mitigated Outdoor	11	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	11,110	kWh/MG
Operational Water Energy	5,511,220	kWh

Land Use <sup>3</sup>	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	110	0	88	0
Refrigerated Warehouse	53	0	42	0
Unrefrigerated Warehouse	355	0	284	0
Parking Lot	0	0	0	0
Landscape	0	12	0	11
<b>Total Operational Water</b>	<b>518</b>	<b>12</b>	<b>414</b>	<b>11</b>

Notes:

**Project Buildout - Operational Water Energy**

Mitigated Indoor	1,042.4	million gallons
Indoor Energy Intensity Factor <sup>1</sup>	13,021	kWh/MG
Mitigated Outdoor	27	million gallons
Outdoor Energy Intensity Factor <sup>2</sup>	11,110	kWh/MG
Operational Water Energy	13,875,282	kWh

Land Use <sup>3</sup>	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	249	0	207	0
Refrigerated Warehouse	130	0	108	0
Unrefrigerated Warehouse	872	0	728	0
Parking Lot	0	0	0	0
Landscape	0	29	0	27
<b>Total Operational Water</b>	<b>1251</b>	<b>29</b>	<b>1042</b>	<b>27</b>

**Phase 1 - Electricity/Natural Gas Energy**

	Mitigated Project Annual Energy	San Bernardino County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	24,111,453	14,987,210,320	0.1609%
Natural Gas (kBTU/yr)	21,637,730	54,727,226,300	0.0395%
Natural Gas (therms/yr)	216,377	547,272,263	0.0395%

Land Use	Electricity <sup>1</sup> (kWh/yr)		Natural Gas <sup>2</sup> (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	5,722,740	5,169,100	2,085,910	1,460,140
Refrigerated Warehouse	13,355,900	13,249,600	17,304,100	16,978,200
Unrefrigerated Warehouse	5,280,120	5,031,770	4,541,790	3,199,390
Parking Lot	660,983	660,983	0	0
Landscape	0	0	0	0
<b>Total Energy</b>	<b>25,019,743</b>	<b>24,111,453</b>	<b>23,931,800</b>	<b>21,637,730</b>

Notes:

<sup>1</sup> Electricity use per CalEEMod (5.3 Energy by Land Use).

<sup>2</sup> Natural Gas use per CalEEMod (5.2 Natural Gas by Land Use).

<sup>3</sup> County total energy values from California Energy Commission energy reports available through [ecdms.energy.ca.gov](http://ecdms.energy.ca.gov).

**Phase 2 - Electricity/Natural Gas Energy**

	Mitigated Project Annual Energy	San Bernardino County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	17,091,302	14,987,210,320	0.1140%
Natural Gas (kBTU/yr)	15,005,620	54,727,226,300	0.0274%
Natural Gas (therms/yr)	150,056	547,272,263	0.0274%

Land Use	Electricity <sup>1</sup> (kWh/yr)		Natural Gas <sup>2</sup> (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	4,513,500	4,076,850	1,645,150	1,151,610
Refrigerated Warehouse	9,170,200	9,097,210	11,881,100	11,657,300
Unrefrigerated Warehouse	3,625,340	3,454,830	3,118,410	2,196,710
Parking Lot	462,412	462,412	0	0
Landscape	0	0	0	0
<b>Total Energy</b>	<b>17,771,452</b>	<b>17,091,302</b>	<b>16,644,660</b>	<b>15,005,620</b>

Notes:

**Project Buildout - Electricity/Natural Gas Energy**

	Mitigated Project Annual Energy	San Bernardino County Annual Energy <sup>3</sup>	Percentage Increase
Electricity (kWh/yr)	41,202,755	14,987,210,320	0.2749%
Natural Gas (kBTU/yr)	36,643,350	54,727,226,300	0.0670%
Natural Gas (therms/yr)	366,434	547,272,263	0.0670%

Land Use	Electricity <sup>1</sup> (kWh/yr)		Natural Gas <sup>2</sup> (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	10,236,240	9,245,950	3,731,060	2,611,750
Refrigerated Warehouse	22,526,100	22,346,810	29,185,200	28,635,500
Unrefrigerated Warehouse	8,905,460	8,486,600	7,660,200	5,396,100
Parking Lot	1,123,395	1,123,395	0	0
Landscape	0	0	0	0
<b>Total Energy</b>	<b>42,791,195</b>	<b>41,202,755</b>	<b>40,576,460</b>	<b>36,643,350</b>

**APPENDIX C**  
**BIOLOGICAL RESOURCES REPORTS**

**APPENDIX C1**

**GENERAL BIOLOGICAL ASSESSMENT**



**GENERAL BIOLOGICAL ASSESSMENT  
FOR  
ONTARIO RANCH COMMERCE  
CENTER EAST**

**CITY OF ONTARIO  
SAN BERNARDINO COUNTY, CALIFORNIA**

**Prepared for:  
EPD Solutions, Inc.  
2030 Main Street, Suite 1200  
Irvine, CA 92614**

**Prepared by:  
Hernandez Environmental Services  
17037 Lakeshore Drive  
Lake Elsinore, CA 92530**

**OCTOBER 2018  
(Updated March 2020)**

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## **APPENDICES**

Appendix A – Species List

Appendix B – Species Probability of Occurrence List

Appendix C – Site Photographs

Appendix D – Soils Survey

## 1.0 Introduction

EPD Solutions, Inc. contracted Hernandez Environmental Services (HES) to conduct a General Biological Assessment (GBA) on Assessor's Parcel Numbers (APNs) 1054-081-03, 1054-071-01, 1054-071-02, 1054-241-01, 1054-241-02, 1054-311-01, 1054-311-02, 1054-091-01, 1054-091-02, 1054-101-01, 1054-101-02, 1054-231-01, 1054-231-02, 1054-321-01, 1054-321-02, 1054-051-01, 1054-051-02, 1054-061-01, 1054-061-02, 1054-251-01, 1054-251-02, 1054-301-01, and 1054-301-02, located in the city of Ontario, San Bernardino County, California. The purpose of the GBA is to document the presence/absence of sensitive resources that may be present on the site, to document existing habitats, and generally address biological questions that may be needed for project approval. This GBA will present the results obtained from the September 21, 2018 and March 12, 2020 field surveys and will provide recommendations to mitigate potential biological impacts from project activities.

### 1.1 Project Site Location

The approximately 225.61-acre project site is located south of Eucalyptus Avenue, north of Merrill Avenue, and east of Grove Avenue, in the city of Ontario, San Bernardino County, California (Figure 1). Specifically, the site is located within the Santa Ana del Chino Land Grant of the *Prado Dam 7.5'* U.S. Geological Survey (USGS) topographic quadrangle (Figure 2). Surrounding land uses include agricultural uses to the north, east, and west. The Chino Airport lies to the south of the site. The entire 225.61-acre site has been disturbed by agricultural use.

### 1.2 Project Description

The proposed project consists of the construction of an industrial park consisting of warehouse and office buildings. The proposed project also includes associated parking, detention basins, access roads, and utilities (Figure 3). The proposed industrial park development will impact 126.8-acres of the project site.

## 2.0 Methodology

### 2.1 Literature Review

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. The *Prado Dam 7.5'* USGS topographic quadrangle and eight surrounding quadrangles were used to identify sensitive species in the California Natural Diversity Data Base (CNDDDB). Additional resources reviewed during the literature search included the United States Fish and Wildlife (USFWS) Endangered Species Lists, and the California Native Plant Society's (CNPS) Rare plant lists to obtain species information for the project area.

## 2.2 Field Survey

On September 21, 2018 and March 12, 2020, HES conducted field surveys of the approximate 225.61-acre project site. On September 21, 2018, the ambient temperature during the field survey was 80° Fahrenheit, sunny, with zero to three mile per hour winds from the southwest. On March 12, 2020 the ambient temperature was 54° Fahrenheit, cloudy, with zero to four mph winds from the south. The purpose of the field surveys was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding uses, assess the potential for state and federal waters, assess potential for wildlife movement corridors, and if critical habitat is present, assess for the presence of constituent elements.

The entire 225.61-acre project site was surveyed. Linear transects approximately 50 feet apart were walked for 100 percent coverage. In areas that were inaccessible the biologist visually inspected habitats with binoculars. All species observed were recorded and Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, or any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

## 3.0 Existing Conditions and Results

### 3.1 Environmental Setting

The approximately 225.61-acre project site consists of an active dairy farm and agricultural fields. At the time of the surveys, the agricultural fields were fallow. The entire site has been disturbed by agricultural use and no native habitat was present. The project site also contains a large complex of man-made stock/retention ponds and channels. Elevations on the site range from 647 feet above mean sea level (AMSL) to 674 feet AMSL. Surrounding land uses include agricultural uses to the north, east, and west. The Chino Airport lies to the south of the site.

### 3.2 Soils

Four soil classes are identified to occur on the project site by the USDA Web Soil Survey (Appendix D). Soils at the project site are classified as:

- Chino silt loam (Cb)
- Grangeville fine sandy loam (Gr);
- Hilmar loamy fine sand (Hr); and
- Tujunga loamy sand (TuB), 0 to 5 percent slopes.

### 3.3 Plant and Habitat Communities

The project site is dominated by four habitat types, including 95.52 acres of agriculture fields, 107.45 acres of disturbed agriculture infrastructure, 19.0 acres of stock/retention ponds and channels, and 3.64 acres of eucalyptus woodland. Following are descriptions of each habitat type.

#### 3.3.1 Agriculture Fields

The project site contains approximately 95.52 acres of agriculture fields. These fields are currently fallow. The agriculture fields are disturbed and dominated by non-native species of grasses and plants. Species observed include *Avena* sp., *Bromus* sp., Russian thistle (*Salsola tragus*) and alfalfa (*Medicago sativa*).

#### 3.3.2 Disturbed Agriculture Infrastructure

The project site contains approximately 107.45 acres of disturbed agriculture infrastructure. These areas contain no native habitat and are currently used for containing livestock. These areas are mostly developed with agricultural use structures or residential buildings. Vegetation within these areas consists of non-native ornamental plant species.

#### 3.3.2 Stock/Retention Ponds and Channels

The project site contains approximately 19.0 acres of areas stock/retention ponds and channels. These ponds and channels are man-made and fed by wells. The ponds are dry and dominated by upland species such as bromus and Russian thistle, but the stock pond drainage channels did contain grasses such as Bermuda (*Cynodon dactylon*) and curly dock (*Rumex crispus*).

#### 3.3.3 Eucalyptus Woodland

The project site contains approximately 3.64 acres of eucalyptus woodland (*Eucalyptus globulus*). These areas are found in rows throughout the site.

## 4.0 Sensitive Biological Resources

### 4.1 Threatened and Endangered Species

A total of 47 sensitive species of plants and 59 sensitive species of animals have the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the USFWS, California Department of Fish and Wildlife (CDFW) and CNPS. All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. This section will address those species listed as Candidate, Rare, Threatened, or Endangered under the state and federal endangered species laws. Other special status species will be reported in Appendix B and individually discussed in the Recommendations Section of this report.

#### 4.1.1 Threatened and Endangered Plants

A total of 17 plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are 1B.1 listed plants on the CNPS Rare Plant Inventory; or have been found to have a potential to exist on the project site. Below are descriptions of these species:

##### *Chaparral sand-verbena*

Chaparral sand-verbena (*Abronia villosa* var. *aurita*) is ranked 1B.1 in the CNPS rare plant inventory. It is found in sandy areas of chaparral, coastal sage scrub, and desert dunes habitats. No habitat for this species is present on the project site. **This species is not considered to be present.**

##### *Braunton's milk-vetch*

Braunton's milk-vetch (*Astragalus brauntonii*) is a federally listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is usually found in recently burned or disturbed areas, usually on sandstone with carbonate layers. Its habitat includes chaparral, coastal sage scrub, valley, and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

##### *Malibu baccharis*

Malibu baccharis (*Baccharis malibuensis*) is ranked 1B.1 in the CNPS rare plant inventory. It is found in Conejo volcanic substrates and often on exposed roadcuts. It sometimes occupies oak woodland habitat and grows at elevations of 150 to 320 meters. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and riparian woodland. No habitat for this species is present on the project site. **This species is not considered to be present.**

##### *Nevin's barberry*

Nevin's barberry (*Berberis nevinii*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found on steep, north facing slopes

or in low grade sandy washes. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and riparian scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *Lucky morning-glory*

Lucky morning-glory (*Calystegia felix*) is ranked 1B.1 in the CNPS rare plant inventory. It is often found in disturbed sites near the coast, at marsh edges. It is also found in alkaline soils and sometimes with saltgrass. This species is sometimes found on the margins of vernal pools. Its habitat includes meadow and seep, and riparian scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *Southern tarplant*

Southern tarplant (*Centromadia parryi* ssp. *australis*) is ranked 1B.1 in the CNPS rare plant inventory. It is often found on disturbed sites near the coast, This species prefers marsh edges. It also grows in alkaline soils, sometimes with saltgrass, and on vernal pool margins. Habitats associated with this plant include: marsh and swamp, salt marsh, valley and foothill grassland, vernal pool, and wetland. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *Smooth tarplant*

Smooth tarplant (*Centromadia pungens* ssp. *laevis*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *San Fernando Valley spineflower*

San Fernando Valley spineflower (*Chorizanthe parryi* var. *Fernandina*) is a federally proposed threatened species, a state listed endangered species, and is ranked 1B.1 in the CNPS rare plant inventory. It is found in sandy soils. Its habitat includes coastal sage scrub, and valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *Parry's spineflower*

Parry's spineflower (*Chorizanthe parryi* var. *parryi*) is ranked 1B.1 in the CNPS rare plant inventory. The species occurs in dry, sandy soils on dry slopes and flats, sometimes at the interface of two vegetations types, such as chaparral and oak woodland. Its habitat includes coastal sage scrub, chaparral, cismontane woodland, valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

#### *Slender-horned spineflower*

Slender - horned spineflower (*Dodecahema leptoceras*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. This species is typically found near flood deposited terraces and washes. Its habitat includes chaparral, cismontane woodland, and

coastal sage scrub (alluvial fan sage scrub). No habitat for this species is present on the project site. **This species is not considered to be present.**

*Santa Ana River woollystar*

Santa Ana River woollystar (*Eriastrum densifolium ssp. sanctorum*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy soils on river floodplains or terraced fluvial deposits. Its habitat includes chaparral and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

*Tecate cypress*

Tecate cypress (*Hesperocyparis forbesii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on clay or gabbro, primarily on north-facing slopes and in groves often associated with chaparral habitat. Its habitat includes closed-cone coniferous forest, and chaparral. No habitat for this species is present on the project site. **This species is not considered to be present.**

*Mesa horkelia*

Mesa horkelia (*Horkelia cuneate var. puberula*) is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy or gravelly sites. Its habitat includes chaparral, cismontane woodland, and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

*Jokerst's monardella*

Jokerst's monardella (*Monardella australis ssp. jokerstii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on steep scree or talus slopes between breccia. Its habitat includes chaparral, and lower montane coniferous forest. No habitat for this species is present on the project site. **This species is not considered to be present.**

*Gambel's water cress*

Gambel's water cress (*Nasturtium gambelii*) is federally listed endangered species, a state listed threatened species, and is ranked 1B.1 in the CNPS rare plant inventory. It is found in freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, and wetland. No marshes or swamps are present on the project site. Only dry, man-made stock ponds are present on the project site. **This species is not considered to be present.**

*Allen's pentachaeta*

Allen's pentachaeta (*Pentachaeta aurea ssp. allenii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on openings in scrub or grassland areas. Its habitat includes coastal sage scrub, and valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

*Brand's star phacelia*

Brand's star phacelia (*Phacelia stellaris*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes coastal dunes and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

## 4.1.2 Threatened and Endangered Animals

A total of 27 animal species that are listed as state and/or federal Threatened, Endangered, or Candidate will be reviewed in this section. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within a 5-mile radius of project area were reviewed and a complete list of those species are discussed within Appendix B. Below are descriptions of these species:

*Tricolored blackbird*

Tricolored blackbird (*Agelaius tricolor*) is a state listed threatened species and listed by the CDFW as a species of special concern. Its habitat includes freshwater marsh, marsh and swamps, and wetland. This species is largely endemic to California and is most numerous in and around the Central Valley. This species requires open accessible water, protected nesting substrate, and a foraging area with insect prey within a few kilometers of the colony. There is potential habitat for this species to be present in the stock ponds if vegetation is allowed to grow around the perimeters. **Potential to be present.**

*Grasshopper sparrow*

Grasshopper sparrow (*Ammodramus savannarum*) is a CDFW Species of Special Concern. It favors native grasslands with a mix of grasses, forbs, and scattered shrubs. Its habitat includes valley and foothill grassland. There is potential habitat for this species to be present in the fallow fields. **Potential to be present.**

*Arroyo Toad*

Arroyo Toad (*Anaxyrus californicus*) is a federally listed endangered species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. Its habitat includes desert wash, riparian scrub, riparian woodland, south coast flowing waters, and south coast standing waters. There is no habitat for this species on the project site. **This species is not considered to be present.**

*Southern California legless lizard*

Southern California legless lizard (*Anniella stebbinsi*) is a CDFW Species of Special Concern. It is found in a variety of habitats, generally around moist, loose soil. This species is generally found south of the Transverse Range, extending to northwestern Baja California, with disjunct populations found in the Tehachapi and Piute Mountains in Kern County. Its habitat includes



broadleaved upland forest, chaparral, coastal dunes, and coastal sage scrub. There is no habitat for this species present on the proposed project site. **This species is not considered to be present.**

#### *Great blue heron*

Great blue heron (*Ardea Herodias*) is a CDF Sensitive Species. It is found in rookery sites near foraging areas. It is a colonial nester in tall trees, cliffsides, and sequestered spots on marshes. Its habitat includes brackish marsh, estuary, freshwater marsh, marsh and swamp, riparian forest, and wetland. There is potential habitat for this species to be present in the stock ponds. **Potential to be present.**

#### *California glossy snake*

California glossy snake (*Arizona elegans occidentalis*) is a CDFW Species of Special Concern. This species is found in arid scrub, rocky washes, grassland and chaparral habitats, often with loose or sandy soils. There is potential habitat for this species to be present on the project site. **Potential to be present.**

#### *Burrowing owl*

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. Its habitat includes coastal prairie, coastal sage scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, and valley and foothill grassland. This species is typically found in open and dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. It is a subterranean nester and is dependent upon burrowing mammals, most notably the California ground squirrel (*Otospermophilus beecheyi*). There is potential habitat for this species to be present on the fallow agricultural fields on the project site. **Potential to be present.**

#### *San Diego fairy shrimp*

San Diego fairy shrimp (*Branchinecta sandiegonensis*) is a federally listed endangered species. This species is found in chaparral, coastal sage scrub, vernal pool, and wetland habitats. The project site consists of a disturbed agriculture area. There is no habitat for this species on the project site. **The species is not considered to be present.**

#### *Swainson's hawk*

Swainson's hawk (*Buteo swainsoni*) is a state listed threatened species. This species favors open grasslands for foraging but also occurs in agricultural settings. It relies on scattered stands of trees near agricultural fields and grasslands for nesting sites. Its habitats include great basin grassland, riparian forest, riparian woodland, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

*Santa Ana sucker*

Santa Ana sucker (*Catostomus santaanae*) is a federally listed threatened species. Its habitat includes aquatic and south coast flowing waters. This species prefers sand-rubble-boulder bottoms, cool and clear water, and algae. It is endemic to the Los Angeles Basin south coastal streams. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*Western yellow-billed cuckoo*

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is a federally listed threatened and state listed endangered species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*Yellow rail*

Yellow rail (*Coturnicops noveboracensis*) is a CDFW Species of Special Concern. It is a summer resident in eastern Sierra Nevada in Mono County. Its habitat includes freshwater marsh and meadow and seep. There is potential habitat for this species to be present in the stock ponds if vegetation is allowed to grow. **Potential to be present.**

*San Bernardino kangaroo rat*

San Bernardino kangaroo rat (*Dipodomys merriami parvus*) is a federally listed endangered species, state listed candidate endangered, and a CDFW Species of Special Concern. It is found in alluvial fan sage scrub habitat. This species is found on sandy loam substrates, characteristic of alluvial fans and flood plains. It needs early to intermediate seral stages. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*Stephen's kangaroo rat*

Stephens' kangaroo rat (*Dipodomys stephensi*) is a federally listed endangered and state listed threatened species. This species is found in coastal sage scrub with sparse vegetation cover, and in valley and foothill grasslands. This species prefers buckwheat, chamise, brome grass, and filaree, and will burrow into firm soil. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*Southwestern willow flycatcher*

Southwestern willow flycatcher (*Empidonax traillii extimus*) is a federally and state listed endangered species. It is found in riparian woodland habitat in southern California. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*Western pond turtle*

Western pond turtle (*Emys marmorata*) is a CDFW Species of Special Concern. This species needs basking sites and suitable upland habitat consisting of sandy banks or grassy open fields up to 0.5 kilometers from water for egg-laying. It is a thoroughly aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6000 feet in elevation. There is potential habitat for this species to be present in the stock ponds. **Potential to be present.**

*California horned lark*

California horned lark (*Eremophila alpestris actia*) is listed on the CDFW Watch List. It is found in coastal regions, chiefly from Sonoma County to San Diego County, as well as in parts of the San Joaquin Valley and east to foothills. This species is found in areas with short-grass prairie, “bald” hills, mountain meadows, open coastal plains, fallow grain fields, and/or alkali flats. There is potential habitat for this species to be present on the project site. **Potential to be present.**

*Western mastiff bat*

Western mastiff bat (*Eumops perotis californicus*) is a CDFW Species of Special Concern. It roosts in crevices in cliff faces, high buildings, trees, and tunnels. It is found in open, semi-arid to arid habitats. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

*Quino checkerspot butterfly*

Quino checkerspot butterfly (*Euphydryas editha quino*) is a federally listed endangered species. It is found in chaparral and coastal sage scrub. This species requires high densities of food plants, including *Plantago erecta*, *P. insularis*, and *Orthocarpus purpureus*. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*Merlin*

Merlin (*Falco columbarius*) is listed on the CDFW Watch List. It is found in areas with clumps of trees or windbreaks for roosting. Its habitat includes estuary, Great Basin grassland, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

*Bald eagle*

Bald eagle (*Haliaeetus leucocephalus*) is a state listed endangered and CDFW fully protected species. This species is found in lower montane coniferous forest and old-growth. They nest in large old-growth or tress with open branches, especially ponderosa pine (*Pinus ponderosa*). The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

*California black rail*

California black rail (*Laterallus jamaicensis coturniculus*) is a state listed threatened species and is a CDFW Fully Protected Species. It inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays. This species needs water depths of about one inch that do not fluctuate throughout the year and dense vegetation for nesting habitat. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, salt marsh, and wetland. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*Steelhead-southern California DPS*

Steelhead-southern California DPS (*Oncorhynchus mykiss irideus* pop. 10) is a federally listed endangered species. This species is likely to have greater physiological tolerances to warmer water and more variable conditions. Its habitats include aquatic and south coast flowing waters. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*Coastal California gnatcatcher*

Coastal California gnatcatcher (*Polioptila californica californica*) is a federally listed threatened species and CDFW Species of Special Concern. This species is found in coastal bluff scrub and coastal scrub habitat. This species is typically found in low, coastal sage scrub in arid washes, on mesas and slopes. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*Delhi Sands flower-loving fly*

Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*) is a federally listed endangered species. It requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. It is found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*California least tern*

California least tern (*Sternula antillarum browni*) is a state and federally listed endangered species and a CDFW Fully Protected Species. It nests along the coast from San Francisco Bay South to northern Baja California. Its habitat includes alkali playa and wetland. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

*Least Bell's vireo*

Least Bell's vireo (*Vireo bellii pusillus*) is a federal and state listed endangered species. This species is found in riparian forest, riparian scrub, and riparian woodland. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

## 4.2 Species with other Special Status Listings

Species which are listed as California Species of Special Concern or are not on the CDFW List of Rare plants have all been evaluated and the results can be reviewed in Appendix B to this report. Any of these species which are present or have a potential to exist in the project area will have mitigation measures to avoid or minimize impacts in the Recommendations section of this report.

## 4.3 Critical Habitats

Critical habitat is defined as areas of land, water, and air space that contain the physical and biological features essential for the survival and recovery of endangered and threatened species. Designated critical habitat includes sites for breeding and rearing, movement or migration, feeding, roosting, cover, and shelter. Critical habitat is designated by USFWS for endangered and threatened species per the federal ESA (16 U.S.C. § 1533 (a)(3)), and to the extent prudent and determinable. Special management of critical habitat, including measures for water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types is required to ensure the long-term survival and recovery of the identified species. Critical habitat designation delineates all suitable habitat for the species, whether or not it is occupied. The project site is not located within or adjacent to designated critical habitat for endangered species.

## 4.4 Nesting Birds

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. The project site contains non-native structures, grasses, shrubs and trees including 3.64 acres of Eucalyptus woodland that can support nesting songbirds or raptors and can be used by nesting song birds or raptors during the nesting bird season of February 1 to September 15.

## 4.5 Wildlife Movement Corridors

Wildlife movement corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species present. Wildlife corridors represent areas where wildlife movement is concentrated due to natural or anthropogenic constraints. Local corridors provide access to resources such as food, water, and shelter. Animals use these corridors, which are often hillsides or riparian areas, to move between different habitats. Regional corridors provide these functions and link two or more large habitat areas. They provide avenues for wildlife dispersal, migration, and contact between otherwise distinct populations.

The project site is not located within a designated wildlife corridor or linkage. The project site consists of a dairy farm and agricultural fields. Bon view Avenue crosses the central portion of the site from north to south. The site is surrounded by agricultural fields to the north, east, and

west. Chino Airport lies to the south. The project site is surrounded by development and/or existing agricultural and livestock land uses. Further, the site is separated from regional wildlife movement corridors associated with the Prado Dam Flood Control Basin and Santa Ana River. Therefore, the project site does not function as a wildlife movement corridor.

#### **4.6 City, County, Regional, State, or Federal Conservation Plans**

The project site is not within any state or federal Habitat Conservation Plans or Habitat Conservation Plans. The Ontario Plan is a Policy Plan that serves as the City of Ontario's General Plan.

The project site is located within the boundaries of the City's Ontario Plan. The Ontario Plan's Environmental Resources Element outlines goals and policies related to Water & Wastewater, Solid Waste & Recycling, Energy, Air Quality, and Biological, Agricultural & Mineral Resources. The biological goal is to protect high value habitat. The Ontario Plan includes policies to support the protection of biological resources through habitat conservation areas and to comply with state and federal regulations regarding protected species.

The City's Municipal Code, Volume II, Chapter 2 contains a provision for "Parkway Tree Regulations" (Ordinance 1664), to preserve parkway trees and to regulate the maintenance and removal of such trees. Parkway is defined as "...that portion of any public street right-of-way between the right-of-way boundary line and the curb line, and also the area enclosed within the curblines of a medial divider." The property owner abutting upon public rights-of-way is responsible to water any tree located in the parkway and for trimming that can be done from the ground to preserve the neat appearance and non-obstructed use of the parkway, while the City is responsible for all major pruning. Removal or relocation of any parkway tree requires prior authorization from the Public Works Agency of the City through a permit process, and planting of a replacement tree, whenever feasible, shall be a condition included in any permit issued by the City for the removal of any parkway tree. Alternatively, a cash-in-lieu deposit may be accepted by the City as an alternate to the actual planting of any required parkway tree based on a fair value established by the Public Facilities Manager.

#### **4.7 State and Federal Jurisdictional Drainages**

The project site contains approximately 19 acres of stock/retention ponds and channels. These ponds and channels are man-made, for agricultural use, and fed by wells. The man-made ponds and channels are not connected to a natural stream, nor do they divert natural flow from any river, stream or lake.

Since the source of the water for these man-made features are not part of a natural stream, river, or lake, the stock ponds are not considered jurisdictional under the CDFW Lake and Streambed Alteration Program. The program states: "An entity shall not substantially divert or obstruct the

natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake...". Therefore, the stock ponds on the project site are not a "natural flow" of a stream, river, or lake, and would not be considered jurisdictional by CDFW.

Further, the man-made stock ponds are not adjacent to and are not considered Waters of the United States (WUS), which receives no hydrologic flow. The stock ponds are isolated features that are not tributary to nor do they have a significant nexus (biological, chemical, or physical connection) to traditional navigable waters of the United States. Therefore, the man-made ponds on the project site would not be considered federally jurisdictional under the Clean Water Act.

## 5.0 Project Impacts

### 5.1 Impacts to Existing Habitats

Implementation of the proposed project will impact approximately 126.80-acre project site, including 48 acres of agriculture fields, 61.8 acres of disturbed agriculture infrastructure, and 17.0 acres of stock/retention ponds and channels.

### 5.2 Impacts to Sensitive Species

#### 5.2.1 Plant Species

As identified in Section 4.1.1 (above), no special-status plant species were detected on the site during the reconnaissance surveys and no special-status plant species are expected to occur on the site due to lack of suitable habitat. Longstanding weed abatement/fire break discing and other anthropogenic disturbances have likely altered soil chemistry and other substrate characteristics such that on-site soils may not currently be capable of supporting sensitive plant species. Therefore, the development of the Project would not result in a substantial adverse effect, either directly or through habitat modification, on any plant species identified as a candidate, sensitive or special status species in local or regional plans, policies, or regulation or by the CDFW or USFWS. Hence, no significant impact to special-status plant species or their habitat would occur.

#### 5.2.2 Animals

As identified in Section 4.1.2 (above), the species discussed below have been determined to have the potential to occur on site. Project activities were evaluated to determine the potential for impacts to these species.

##### *Tricolored blackbird*

Tricolored blackbird is a state listed candidate endangered species and listed by the CDFW as a species of special concern. There is potential habitat for this species present on this site. This potential habitat is found around the man-made stock ponds if vegetation is allowed to grow or if

vegetation is present. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

#### *Grasshopper sparrow*

Grasshopper sparrow (*Ammodramus savannarum*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

#### *Great blue heron*

Great blue heron is a CDF Sensitive Species. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

#### *California glossy snake*

California glossy snake (*Arizona elegans occidentalis*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

#### *Burrowing owl*

Burrowing owl is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Protocol burrowing owl surveys are recommended to determine the presence and use of the site by burrowing owls.

#### *Swainson's hawk*

Swainson's hawk is a state listed threatened species. There is potential habitat including the for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

#### *Yellow rail*

Yellow rail (*Coturnicops noveboracensis*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. This potential habitat is found around the man-made stock ponds if vegetation is allowed to grow or if vegetation is present. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.



*Western pond turtle*

Western pond turtle is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

*California horned lark*

California horned lark is listed on the CDFW Watch List. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

*Western mastiff bat*

Western mastiff bat is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

*Merlin*

Merlin is listed on the CDFW Watch List. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

### **5.3 Impacts to Nesting Birds**

Potential impacts to nesting birds may occur if ground disturbing activities or vegetation removal occur during the bird nesting season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to nesting birds are less than significant.

### **5.4 Impacts to Critical Habitat**

The project is not located within designated federal critical habitat. No impact to critical habitat is expected.

### **5.5 Impacts to Wildlife Movement Corridors**

The project site does not contain any wildlife movement corridors. No impacts are expected.

## 5.6 Conflict with Local Policies or Ordinances Protecting Biological Resources

The Ontario Plan supports the protection of high value habitat areas by establishing habitat conservation areas and complying with state and federal regulations regarding protected species. Since the project site does not support high value habitats or protected species, the project will not conflict with these policies.

The City's Municipal Code has a provision to protect parkway trees within public rights-of-way and requires a permit to remove or relocate any trees, and planting of replacement trees or a cash-in-lieu fee compensation for any tree removed. Should the project result in the removal of trees that are considered parkway trees, a permit will be required.

## 5.7 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation plan

No impacts to any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation plan are anticipated.

## 6.0 Recommendations

In order to mitigate any potential impacts from project activities, the project should incorporate the following recommendations:

### 6.1 Sensitive Species

Tricolored blackbird, Grasshopper sparrow, Great blue heron, Swainson's hawk, Yellow rail, California horned lark, Merlin

- It is recommended that vegetation removal be conducted outside of the nesting season for migratory birds to avoid direct impacts.
- If vegetation removal will occur during the migratory bird nesting season, between February 1 and September 15, it is recommended that pre-construction nesting bird surveys be performed within three days prior to vegetation removal.
- If active nests are found during nesting bird surveys, they shall be flagged. A 250-foot buffer shall be fenced around song bird nests and a 500-foot buffer shall be fenced around raptor nests.
- A biological monitor shall visit the site once a week during ground disturbing activities to ensure all fencing is in place and no sensitive species are being impacted

### California glossy snake

- Three days prior to any ground disturbing activities or vegetation removal, a qualified biological monitor should conduct a preconstruction survey to identify any sensitive biological resources. Any reptile species that may be present within the project area shall be relocated outside of the impact areas.
- Biological monitors shall be on-call to relocate any reptile or amphibian that is encountered during construction activities.

### Burrowing owl

- A protocol burrowing owl survey is recommended to determine the presence and use of the site by burrowing owls.

### Western mastiff bat

- Prior to implementation of project activities, a qualified biologist shall be retained to determine whether potential roosting sites for special-status bats may be affected. Specifically, the agriculture buildings used for sheltering bovines.
- If potential roosting sites are identified, a preconstruction survey shall be conducted prior to the end of April to determine the presence or absence of roosting bats. If the survey does not identify the presence of occupied roosts, no further action is necessary.
- If day roosts or maternity roosts occupied by special-status bat species are documented within construction areas, the bats shall be safely flushed from the sites where roosting habitat is planned to be removed prior to the month of May (maternity roosts are generally occupied from May to August) and prior to the onset of construction activities. The removal of the roosting sites shall occur during the time of day when the roost is unoccupied. The loss of each roost will be compensated for by the construction and installation of two bat boxes suitable to the bat species and colony size excluded from the original roosting site. The bat boxes shall be installed in the vicinity prior to removal of the original day/maternity roost sites. A detailed program for bat flushing, roosting site removal, and installation of bat boxes shall be developed in consultation with a qualified biologist.

### Western pond turtle

- Within 14 days prior to the onset of construction activities, a qualified biologist shall conduct pre-construction surveys for western pond turtle within all areas that fall within 100 feet of any suitable aquatic and upland nesting habitat for this species (stock/retention

ponds). If western pond turtles are observed during the pre-construction survey, the California Department of Fish and Wildlife shall be contacted. If no Western pond turtles are observed during the preconstruction survey, then construction activities may begin. If construction is delayed or halted for more than 30 days, another pre-construction survey for western pond turtle shall be conducted. Within seven days of the pre-construction survey, a report of findings from the survey shall be submitted to the California Department of Fish and Wildlife.

- During construction, a qualified biological monitor who has been approved by the California Department of Fish and Wildlife to relocate western pond turtles shall be onsite to ensure that no western pond turtles are harmed. If western pond turtles are observed in the construction area at any time during construction, the onsite biological monitor shall be notified and construction in the vicinity of the sighting shall be halted until such a time as a turtle has been removed from the construction zone and relocated by an approved biologist. If a sighting occurs during construction, the biologist shall prepare a report of the event and submit it to California Department of Fish and Wildlife.

## 7.0 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.



Date 3-25-20

Signed \_\_\_\_\_

PROJECT MANAGER

Fieldwork Performed By:

Juan Jose Hernandez

\_\_\_\_\_  
PRINCIPAL BIOLOGIST

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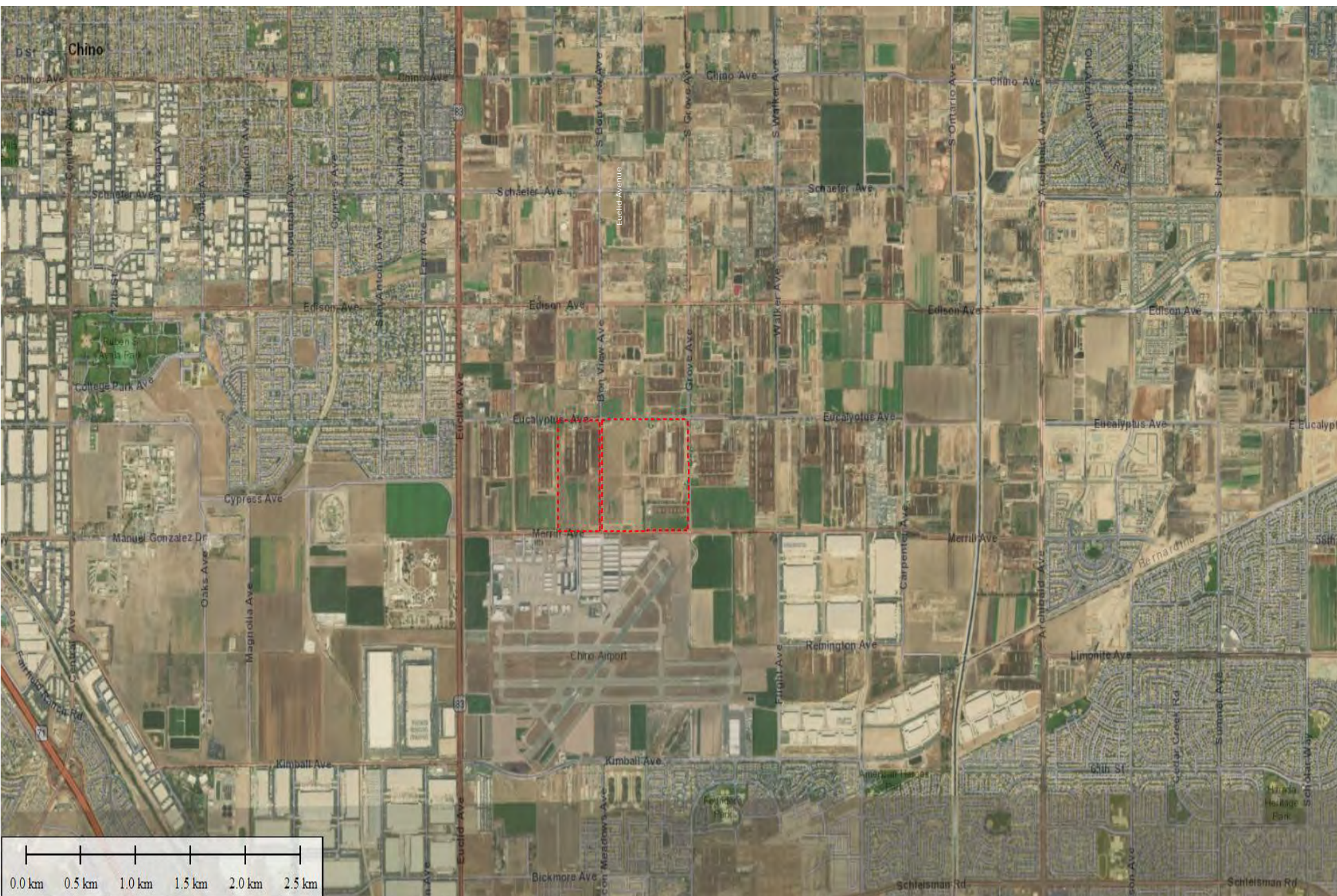
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# FIGURES

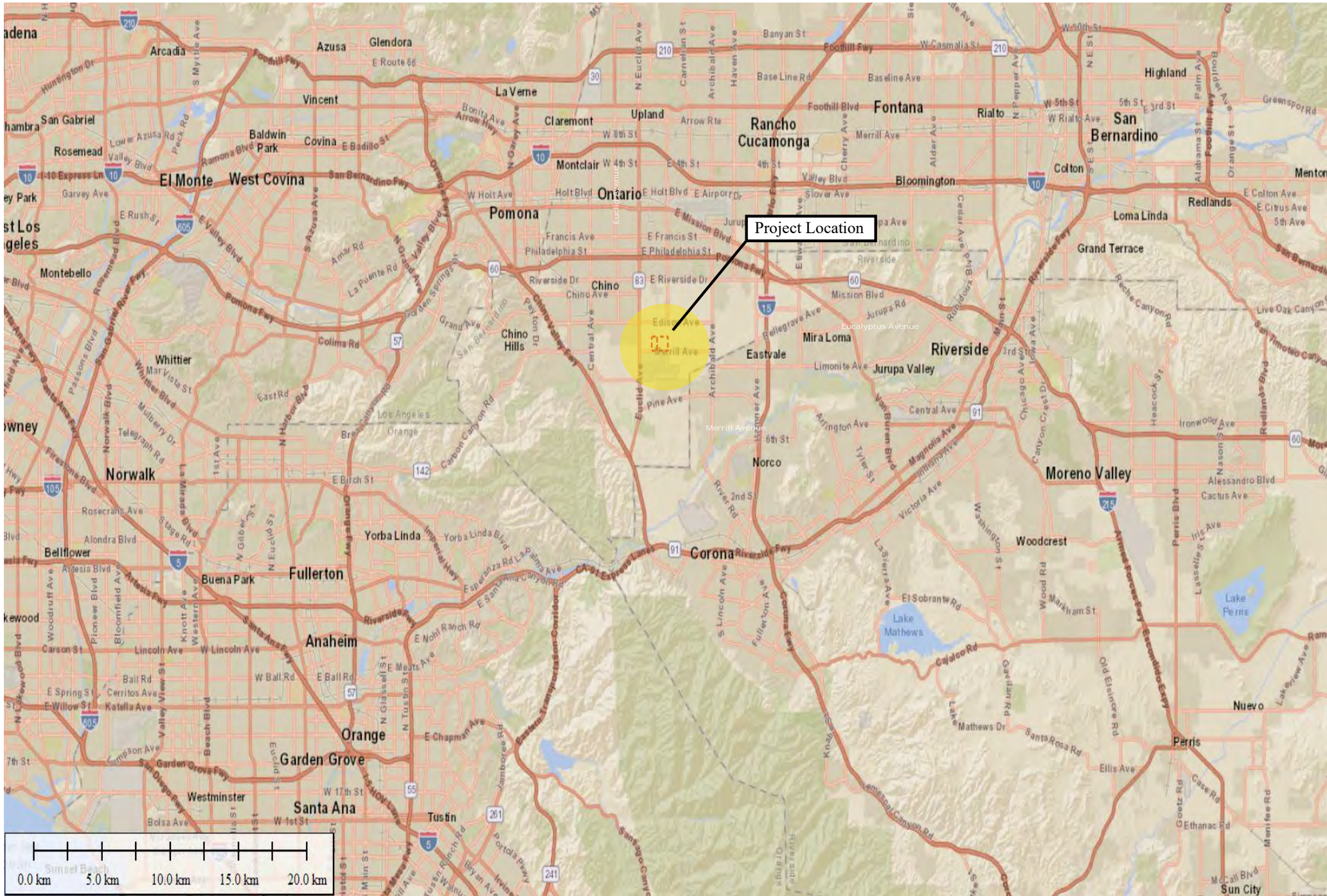


**Figure 1**  
 Location Map  
 Ontario Ranch Commerce Center East  
 City of Ontario  
 San Bernardino County, California

**Legend**

 Project Site Boundary





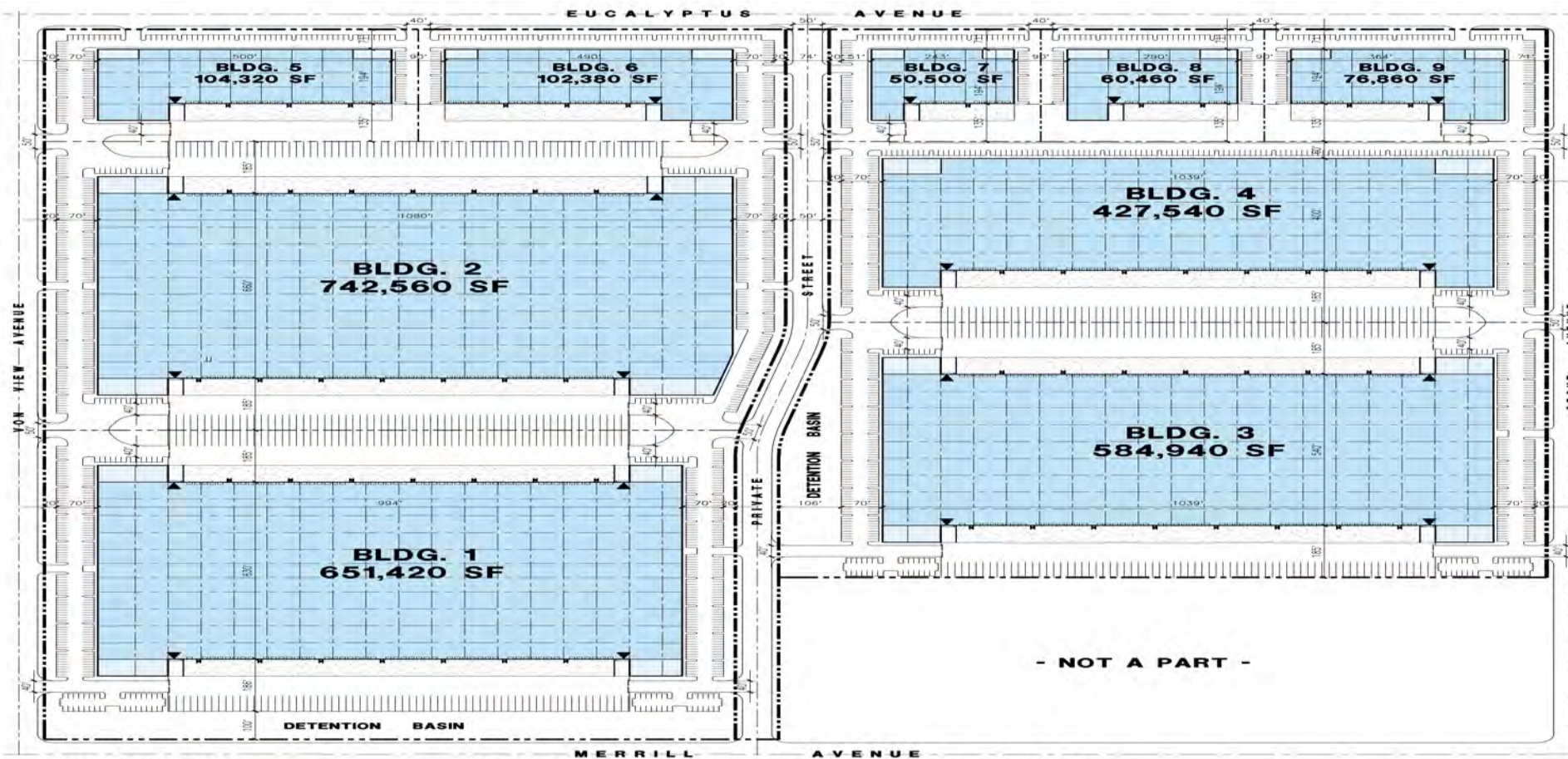
**Figure 2**  
 Vicinity Map  
 Ontario Ranch Commerce Center East  
 City of Ontario  
 San Bernardino County, California

**Legend**

 Project Site Boundary



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- NOT A PART -

**Aerial Map**



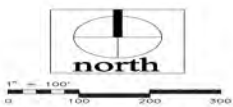
Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

**Legend**

- POTENTIAL OFFICE
- WAREHOUSE
- DRIVE THRU DOOR

**Tabulation**

	BLDG. 1	BLDG. 2	BLDG. 3	BLDG. 4	BLDG. 5	BLDG. 6	BLDG. 7	BLDG. 8	BLDG. 9	TOTAL
<b>SITE AREA</b>										
in s.f.	1,292,842	1,264,107	1,167,225	786,256	254,000	250,000	143,600	152,000	192,000	5,522,030 s.f.
in acres	29.7	29.5	26.8	18.0	5.8	5.7	3.3	3.5	4.4	126.8 ac
<b>BUILDING AREA</b>										
Office	20,000	20,000	20,000	10,000	5,000	5,000	5,000	5,000	5,000	95,000 s.f.
Warehouse	631,420	722,560	564,940	417,540	95,320	97,380	45,500	55,460	71,860	2,705,980 s.f.
<b>TOTAL</b>	651,420	742,560	584,940	427,540	100,320	102,380	50,500	60,460	76,860	2,800,980 s.f.
<b>COVERAGE</b>	50.4%	57.6%	50.1%	54.4%	41.1%	41.0%	35.2%	39.6%	40.0%	50.7%
<b>AUTO PARKING REQUIRED</b>										
Office: 1/250 s.f.	80	80	80	40	20	20	20	20	20	380 stalls
Warehouse: 1st 20K @ 1/1,000 s.f.	20	20	20	20	20	20	20	20	20	180 stalls
over 20K @ 1/2,000 s.f.	396	392	273	199	49	39	13	18	26	1,265 stalls
<b>TOTAL</b>	496	492	373	259	89	79	53	58	66	1,826 stalls
<b>PARKING PROVIDED</b>										
Standard (8' x 15')	368	362	354	338	120	126	78	71	80	1,938 stalls
Trailer (12' x 55')	130	134	140	70	0	0	0	0	0	474 stalls
<b>TOTAL</b>	518	496	494	408	120	126	78	71	80	2,412 stalls
<b>MAXIMUM FLOOR AREA RATIO</b>										
FAIR - 55										
<b>SETBACKS</b>										
Building										
Front/Street side - 20'										
side - 20'										
rear - 15'										
Landscaping										
Eucalyptus Ave - 20'										
Merrill Ave - 23'										
Von View Ave - 20'										
Private St. - 20'										
<b>ZONING ORDINANCE FOR CITY</b>										
new specific plan to be determined										



**Conceptual Site Plan**  
**Eucalyptus Ave. and Grove Ave.**

Ontario, CA



September 15, 2017 / Job #17314  
Scheme 3



18831 Bardeen Ave. - Ste. #100  
Irvine, CA 92612  
(949) 863-1770  
www.hparch.com

**Figure 3**  
Site Plans  
Ontario Ranch Commerce Center East  
City of Ontario  
San Bernardino County, California





**Figure 4**  
 Habitat Map  
 Ontario Ranch Commerce Center East  
 City of Ontario  
 San Bernardino County, California

- Legend**
- Project Site Boundary
  - 107.45 Acres of Disturbed Agricultural Infrastructure
  - 95.52 Acres of Agricultural Fields
  - 19 Acres of Stock/Retention Ponds
  - 3.64 Acres of Eucalyptus Woodland

N

Hernandez  
 Environmental  
 Services

# **APPENDIX A**

## Species List

### Plant List

<i>Amaranthus albus</i>	Tumbleweed
<i>Ambrosia psilostachya</i>	Western ragweed
<i>Amsinckia intermedia</i>	Common fiddleneck
<i>Brassica nigra</i>	Black mustard
<i>Brassica tournefortii</i>	Saharan mustard
<i>Calystegia</i> sp.	Bindweed
<i>Carex</i> sp.	Sedges
<i>Cynodon dactylon</i>	Bermuda grass
<i>Chenopodium album</i>	Lambs quarters
<i>Datura stramonium</i>	Jimson weed
<i>Erigeron canadensis</i>	Horseweed
<i>Eucalyptus globulus</i>	Blue gum
<i>Euphorbia maculate</i>	Spotted spurge
<i>Helianthus annus</i>	Common sunflower
<i>Heterotheca grandiflora</i>	Telegraph weed
<i>Hordeum murinum</i>	Foxtail barley
<i>Juncus</i> sp.	Rushes
<i>Malva parviflora</i>	Cheeseweed
<i>Medicago sativa</i>	Alfalfa
<i>Nicotina glauca</i>	Tree tobacco
<i>Salsola tragus</i>	Russian thistle
<i>Schismus barbatus</i>	Common Mediterranean grass
<i>Sisymbrium irio</i>	London rocket
<i>Tamarix</i> spp.	Tamarisk
<i>Tribulus terrestris</i>	Puncture weed
<i>Zea</i> sp.	Maiz

## **Animal List**

*Buteo jamaicensis*

*Cathartes aura*

*Charadrius vociferus*

*Corvus brachyrhynchos*

*Corvus corax*

*Euphagus cyanocephalus*

*Haemorhous mexicanus*

*Himantopus mexicanus*

*Hirundo rustica*

*Melospiza crissalis*

*Otospermophilus beecheyi*

*Sayornis nigricans*

*Sayornis saya*

*Streptopelia decaocto*

*Tyrannus verticalis*

*Uta stansburiana*

*Zenaidura macroura*

*Zonotrichia leucophrys*

Red-tailed hawk

Turkey Vulture

Killdeer

American crow

Raven

Brewer's Blackbird

House finch

Black-necked stilt

Barn swallow

California towhee

California ground squirrel

Black phoebe

Say's phoebe

Eurasian collared dove

Western kingbird

Common side-blotched Lizard

Mourning Dove

White-crowned sparrow



## **APPENDIX B**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena	Dicots	None	None	1B.1	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Desert dunes	Chaparral, coastal scrub, desert dunes.	Sandy areas. -60-1570 m.	No habitat for this species. <b>Not present.</b>
<i>Astragalus brauntonii</i>	Braunton's milk-vetch	Dicots	Endangered	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden	Chaparral   Coastal scrub   Limestone   Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Recent burns or disturbed areas; usually on sandstone with carbonate layers. Soil specialist; requires shallow soils to defeat pocket gophers and open areas, preferably on hilltops, saddles or bowls between hills. 3-640 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Atriplex coulteri	Coulter's saltbush	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal bluff scrub   Coastal dunes   Coastal scrub   Valley & foothill grassland	Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland.	Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. 2-460 m.	No habitat for this species. <b>Not present.</b>
Baccharis malibuensis	Malibu baccharis	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub   Riparian woodland	Coastal scrub, chaparral, cismontane woodland, riparian woodland.	In Conejo volcanic substrates, often on exposed roadcuts. Sometimes occupies oak woodland habitat. 150-320 m.	No habitat for this species. <b>Not present.</b>
Berberis nevinii	Nevin's barberry	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub   Riparian scrub	Chaparral, cismontane woodland, coastal scrub, riparian scrub.	On steep, N-facing slopes or in low grade sandy washes. 90-1590 m.	No habitat for this species. Not present.
California Walnut Woodland	California Walnut Woodland	Woodland	None	None			Cismontane woodland			<b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Calochortus plummerae	Plummer's mariposa-lily	Monocots	None	None	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	No habitat for this species. <b>Not present.</b>
Calochortus weedii var. intermedius	intermediate mariposa-lily	Monocots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland.	Dry, rocky calcareous slopes and rock outcrops. 60-1575 m.	No habitat for this species. <b>Not present.</b>
Calystegia felix	lucky morning-glory	Dicots	None	None	1B.1		Meadow & seep   Riparian scrub	Meadows and seeps, riparian scrub.	Sometimes alkaline, alluvial. 9-205 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Marsh & swamp   Salt marsh   Valley & foothill grassland   Vernal pool   Wetland	Marshes and swamps (margins), valley and foothill grassland, vernal pools.	Often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. 0-975 m.	No habitat for this species. <b>Not present.</b>
<i>Centromadia pungens</i> ssp. <i>laevis</i>	smooth tarplant	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa   Chenopod scrub   Meadow & seep   Riparian woodland   Valley & foothill grassland   Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	No habitat for this species. <b>Not present.</b>
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower	Dicots	Proposed Threatened	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Coastal scrub   Valley & foothill grassland	Coastal scrub, valley and foothill grassland.	Sandy soils. 15-1015 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	No habitat for this species. <b>Not present.</b>
Chorizanthe polygonoides var. longispina	long-spined spineflower	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub   Meadow & seep   Ultramafic   Valley & foothill grassland   Vernal pool	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools.	Gabbroic clay. 30-1630 m.	No habitat for this species. <b>Not present.</b>
Cladium californicum	California saw-grass	Monocots	None	None	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Alkali marsh   Freshwater marsh   Meadow & seep   Wetland	Meadows and seeps, marshes and swamps (alkaline or freshwater).	Freshwater or alkaline moist habitats. -20-2135 m.	No meadows or seeps present. Just man-made stock ponds. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	No habitat for this species. <b>Not present.</b>
Dudleya multicaulis	many-stemmed dudleya	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	In heavy, often clayey soils or grassy slopes. 1-910 m.	No habitat for this species. <b>Not present.</b>
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Hesperocyparis forbesii	Tecate cypress	Gymnosperms	None	None	1B.1	BLM_S-Sensitive   SB_CRES-San Diego Zoo CRES Native Gene Seed Bank   SB_RSABG-Rancho Santa Ana Botanic Garden   SB_UCSC-UC Santa Cruz   SB_USDA-US Dept of Agriculture   USFS_S-Sensitive	Chaparral   Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral.	Primarily on north-facing slopes; groves often associated with chaparral. On clay or gabbro. 60-1650 m.	No habitat for this species. <b>Not present.</b>
Horkelia cuneata var. puberula	mesa horkelia	Dicots	None	None	1B.1	USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No habitat for this species. <b>Not present.</b>
Lepechinia cardiophylla	heart-leaved pitcher sage	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Cismontane woodland   Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral, cismontane woodland.	115-1345 m.	No habitat for this species. <b>Not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3		Chaparral   Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No habitat for this species. <b>Not present.</b>
Monardella australis ssp. jokerstii	Jokerst's monardella	Dicots	None	None	1B.1	USFS_S-Sensitive	Chaparral   Lower montane coniferous forest	Lower montane coniferous forest, chapparal.	Steep scree or talus slopes between breccia. Secondary alluvial benches along drainages and washes. 210-1740 m.	No habitat for this species. <b>Not present.</b>
Monardella hypoleuca ssp. intermedia	intermediate monardella	Dicots	None	None	1B.3		Chaparral   Cismontane woodland   Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest (sometimes).	Often in steep, brushy areas. 195-1675 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Muhlenbergia californica	California muhly	Monocots	None	None	4.3		Chaparral   Coastal scrub   Lower montane coniferous forest   Meadow & seep	Coastal scrub, chaparral, lower montane coniferous forest, meadows and seeps.	Usually found near streams or seeps. 100-2000 m.	No habitat for this species. <b>Not present.</b>
Muhlenbergia utilis	aparejo grass	Monocots	None	None	2B.2		Chaparral   Cismontane woodland   Coastal scrub   Marsh & swamp   Meadow & seep   Ultramafic	Meadows and seeps, marshes and swamps, chaparral, coastal scrub, cismontane woodland.	Sometimes alkaline, sometimes serpentinite. 25-2325 m.	No habitat for this species. Not present.
Nasturtium gambelii	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden	Brackish marsh   Freshwater marsh   Marsh & swamp   Wetland	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-305 m.	No marshes or swamps present. Just man-made stock ponds. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Navarretia prostrata	prostrate vernal pool navarretia	Dicots	None	None	1B.2		Coastal scrub   Meadow & seep   Valley & foothill grassland   Vernal pool   Wetland	Coastal scrub, valley and foothill grassland, vernal pools, meadows and seeps.	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 3-1235 m.	No habitat for this species. <b>Not present.</b>
Nolina cismontana	chaparral nolina	Monocots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Ultramafic	Chaparral, coastal scrub.	Primarily on sandstone and shale substrates; also known from gabbro. 140-1100 m.	No habitat for this species. <b>Not present.</b>
Penstemon californicus	California beardtongue	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_USDA-US Dept of Agriculture   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest   Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Stony slopes and shrubby openings; sandy or granitic soils. 240-2290 m.	No habitat for this species. <b>Not present.</b>
Pentachaeta aurea ssp. allenii	Allen's pentachaeta	Dicots	None	None	1B.1		Coastal scrub   Valley & foothill grassland	Valley and foothill grasslands, coastal scrub.	Openings in scrub or grassland. 75-520 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Phacelia keckii	Santiago Peak phacelia	Dicots	None	None	1B.3	USFS_S-Sensitive	Chaparral   Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral.	Open areas, sometimes along creeks. 545-1525 m.	No habitat for this species. <b>Not present.</b>
Phacelia stellaris	Brand's star phacelia	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal dunes   Coastal scrub	Coastal scrub, coastal dunes.	Open areas. 3-370 m.	No habitat for this species. <b>Not present.</b>
Pseudognaphalium leucocephalum	white rabbit-tobacco	Dicots	None	None	2B.2		Chaparral   Cismontane woodland   Coastal scrub   Riparian woodland	Riparian woodland, cismontane woodland, coastal scrub, chaparral.	Sandy, gravelly sites. 35-515 m.	No habitat for this species. <b>Not present.</b>
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None			Coastal scrub			<b>Not present.</b>
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	USFS_S-Sensitive	Alkali playa   Chaparral   Coastal scrub   Lower montane coniferous forest   Mojavean desert scrub   Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3-2380 m.	No habitat for this species. <b>Not present.</b>
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None			Riparian forest			<b>Not present.</b>
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None			Riparian forest			<b>Not present.</b>
Southern Interior Cypress Forest	Southern Interior Cypress Forest	Forest	None	None			Closed-cone coniferous forest			<b>Not present.</b>
Southern Riparian Forest	Southern Riparian Forest	Riparian	None	None			Riparian forest			<b>Not present.</b>
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None			Riparian scrub			<b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None			Riparian woodland			<b>Not present.</b>
Southern Willow Scrub	Southern Willow Scrub	Riparian	None	None			Riparian scrub			<b>Not present.</b>
Symphytotric hum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	BLM_S-Sensitive   USFS_S-Sensitive	Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	No habitat for this species. <b>Not present.</b>
Thysanocarpus rigidus	rigid fringe pod	Dicots	None	None	1B.2	BLM_S-Sensitive   USFS_S-Sensitive	Pinon & juniper woodlands	Pinyon and juniper woodland.	Dry, rocky slopes and ridges of oak and pine woodland in arid mountain ranges. 425-2165	No habitat for this species. <b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/Absence
Walnut Forest	Walnut Forest	Forest	None	None			Broadleaved upland forest			<b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Accipiter cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Cismontane woodland   Riparian forest   Riparian woodland   Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No habitat for this species present. <b>Not present.</b>
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered   NABCI_RWL-Red Watch List   USFWS_BCC-Birds of Conservation Concern	Freshwater marsh   Marsh & swamp   Swamp   Wetland	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Habitat is present in the stock ponds. <b>Potential to be present.</b>
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral   Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	No habitat for this species present. <b>Not present.</b>



Ammodramus savannarum	grasshopper sparrow	Birds	None	None	CDFW_SSC- Species of Special Concern   IUCN_LC-Least Concern	Valley & foothill grassland	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes.	Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting.	Habitat is present in the stock ponds. <b>Potential to be present.</b>
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None	CDFW_SSC- Species of Special Concern   IUCN_EN- Endangered	Desert wash   Riparian scrub   Riparian woodland   South coast flowing waters   South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley- foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	No habitat for this species present. <b>Not present.</b>

<p>Anniella stebbinsi</p>	<p>southern California legless lizard</p>	<p>Reptiles</p>	<p>None</p>	<p>None</p>	<p>CDFW_SSC- Species of Special Concern   USFS_S-Sensitive</p>	<p>Broadleaved upland forest   Chaparral   Coastal dunes   Coastal scrub</p>	<p>Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.</p>	<p>Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.</p>	<p>No habitat for this species present. <b>Not present.</b></p>
<p>Antrozous pallidus</p>	<p>pallid bat</p>	<p>Mammals</p>	<p>None</p>	<p>None</p>	<p>BLM_S-Sensitive   CDFW_SSC- Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive   WBWG_H-High Priority</p>	<p>Chaparral   Coastal scrub   Desert wash   Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Riparian woodland   Sonoran desert scrub   Upper montane coniferous forest   Valley &amp; foothill grassland</p>	<p>Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.</p>	<p>Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.</p>	<p>No habitat for this species present. <b>Not present.</b></p>

<p>Aquila chrysaetos</p>	<p>golden eagle</p>	<p>Birds</p>	<p>None</p>	<p>None</p>	<p>BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   CDFW_WL-Watch List   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern</p>	<p>Broadleaved upland forest   Cismontane woodland   Coastal prairie   Great Basin grassland   Great Basin scrub   Lower montane coniferous forest   Pinon &amp; juniper woodlands   Upper montane coniferous forest   Valley &amp; foothill grassland</p>	<p>Rolling foothills, mountain areas, sage-juniper flats, and desert.</p>	<p>Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.</p>	<p>No habitat for this species present. <b>Not present.</b></p>
<p>Ardea herodias</p>	<p>great blue heron</p>	<p>Birds</p>	<p>None</p>	<p>None</p>	<p>CDF_S-Sensitive   IUCN_LC-Least Concern</p>	<p>Brackish marsh   Estuary   Freshwater marsh   Marsh &amp; swamp   Riparian forest   Wetland</p>	<p>Colonial nester in tall trees, cliffsides, and sequestered spots on marshes.</p>	<p>Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.</p>	<p>Habitat is present in the stock ponds. <b>Potential to be present.</b></p>

Arizona elegans occidentalis	California glossy snake	Reptiles	None	None	CDFW_SSC- Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Habitat is present. <b>Potential to be present.</b>
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None	CDFW_WL- Watch List   USFWS_BCC- Birds of Conservation Concern	Chaparral   Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	No habitat for this species present. <b>Not present.</b>

Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Cismontane woodland   Great Basin scrub   Riparian forest   Riparian woodland   Upper montane coniferous forest	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	No habitat for this species present. <b>Not present.</b>
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	No habitat for this species present. <b>Not present.</b>
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland & riparian areas.	Ground may be firm soil, sandy, or rocky.	No habitat for this species present. <b>Not present.</b>

Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Coastal prairie   Coastal scrub   Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Sonoran desert scrub   Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Habitat is present. <b>Potential to be present.</b>
Branchinecta sandiegonensis	San Diego fairy shrimp	Crustaceans	Endangered	None	IUCN_EN-Endangered	Chaparral   Coastal scrub   Vernal pool   Wetland	Endemic to San Diego and Orange County mesas.	Vernal pools.	Project area is disturbed agriculture area. No habitat for this species present. <b>Not present.</b>

Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Great Basin grassland   Riparian forest   Riparian woodland   Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Habitat is present. <b>Potential to be present.</b>
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	Birds	None	None	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Coastal scrub	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.	No habitat for this species present. <b>Not present.</b>
Catostomus santaanae	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened   IUCN_VU-Vulnerable	Aquatic   South coast flowing waters	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	No habitat for this species present. <b>Not present.</b>

Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No habitat for this species present. <b>Not present.</b>
Choeronycteris mexicana	Mexican long-tongued bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened   WBWG_H-High Priority	Pinon & juniper woodlands   Riparian scrub   Sonoran thorn woodland	Occasionally found in San Diego County, which is on the periphery of their range.	Feeds on nectar and pollen of night-blooming succulents. Roosts in relatively well-lit caves, and in and around buildings.	No habitat for this species present. <b>Not present.</b>
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive   NABCI_RWL-Red Watch List   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	No habitat for this species present. <b>Not present.</b>
Coleonyx variegatus abbotti	San Diego banded gecko	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal & cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	No habitat for this species present. <b>Not present.</b>



Coturnicops noveboracensis	yellow rail	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   NABCI_RWL-Red Watch List   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Freshwater marsh   Meadow & seep	Summer resident in eastern Sierra Nevada in Mono County.	Freshwater marshlands.	Habitat is present in the stock ponds. <b>Potential to be present.</b>
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Chaparral   Mojavean desert scrub   Sonoran desert scrub	Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	No habitat for this species present. <b>Not present.</b>
Diplectrona californica	California diplectronan caddisfly	Insects	None	None		Aquatic			No stream present. <b>Not present.</b>

Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	CDFW_SSC-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	No habitat for this species present. <b>Not present.</b>
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Endangered	Threatened	IUCN_EN-Endangered	Coastal scrub   Valley & foothill grassland	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	No habitat for this species present. <b>Not present.</b>
Elanus leucurus	white-tailed kite	Birds	None	None	BLM_S-Sensitive   CDFW_FP-Fully Protected   IUCN_LC-Least Concern	Cismontane woodland   Marsh & swamp   Riparian woodland   Valley & foothill grassland   Wetland	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Habitat is present. <b>Potential to be present.</b>
Empidonax traillii extimus	southwestern willow flycatcher	Birds	Endangered	Endangered	NABCI_RWL-Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No habitat for this species present. <b>Not present.</b>

Emys marmorata	western pond turtle	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_VU-Vulnerable   USFS_S-Sensitive	Aquatic   Artificial flowing waters   Klamath/North coast flowing waters   Klamath/North coast standing waters   Marsh & swamp   Sacramento/San Joaquin flowing waters   Sacramento/San Joaquin standing waters   South coast flowing waters   South coast standing waters   Wetland	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Habitat is present in the stock ponds. <b>Potential to be present.</b>
Eremophila alpestris actia	California horned lark	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Marine intertidal & splash zone communities   Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Habitat is present. <b>Potential to be present.</b>

Eumops perotis californicus	western mastiff bat	Mammals	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   WBWG_H-High Priority	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	Habitat is present. <b>Potential to be present.</b>
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None	XERCES_CI-Critically Imperiled	Chaparral   Coastal scrub	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties.	Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpureus.	No habitat for this species present. Not present.
Falco columbarius	merlin	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Estuary   Great Basin grassland   Valley & foothill grassland	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches.	Clumps of trees or windbreaks are required for roosting in open country.	Habitat is present. <b>Potential to be present.</b>

Falco peregrinus anatum	American peregrine falcon	Birds	Delisted	Delisted	CDF_S-Sensitive   CDFW_FP-Fully Protected   USFWS_BCC- Birds of Conservation Concern		Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human- made structures.	Nest consists of a scrape or a depression or ledge in an open site.	No habitat for this species present. <b>Not present.</b>
Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU- Vulnerable   CDFW_SSC- Species of Special Concern   USFS_S-Sensitive	Aquatic   South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave & San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	No habitat for this species present. <b>Not present.</b>

Haliaeetus leucocephalus	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   IUCN_LC-Least Concern   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Lower montane coniferous forest   Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	No habitat for this species present. <b>Not present.</b>
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Riparian forest   Riparian scrub   Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No habitat for this species present. <b>Not present.</b>
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_H-High Priority	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	No habitat for this species present. <b>Not present.</b>

Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S-Sensitive   CDFW_FP-Fully Protected   IUCN_NT-Near Threatened   NABCI_RWL-Red Watch List   USFWS_BCC-Birds of Conservation Concern	Brackish marsh   Freshwater marsh   Marsh & swamp   Salt marsh   Wetland	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	No habitat for this species present. <b>Not present.</b>
Myotis yumanensis	Yuma myotis	Mammals	None	None	BLM_S-Sensitive   IUCN_LC-Least Concern   WBWG_LM-Low-Medium Priority	Lower montane coniferous forest   Riparian forest   Riparian woodland   Upper montane coniferous forest	Optimal habitats are open forests and woodlands with sources of water over which to feed.	Distribution is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices.	No habitat for this species present. <b>Not present.</b>
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No habitat for this species present. <b>Not present.</b>

Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_M-Medium Priority	Joshua tree woodland   Pinon & juniper woodlands   Riparian scrub   Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	No habitat for this species present. <b>Not present.</b>
Nyctinomops macrotis	big free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_MH-Medium-High Priority		Low-lying arid areas in Southern California.	Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	No habitat for this species present. <b>Not present.</b>
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	Endangered	None	AFS_EN-Endangered	Aquatic   South coast flowing waters	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County).	Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	No habitat for this species present. Not present.



Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	None	None	CDFW_SSC- Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	No habitat for this species present. <b>Not present.</b>
Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC- Species of Special Concern   IUCN_LC-Least Concern	Chaparral   Cismontane woodland   Coastal bluff scrub   Coastal scrub   Desert wash   Pinon & juniper woodlands   Riparian scrub   Riparian woodland   Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No habitat for this species present. <b>Not present.</b>
Polioptila californica californica	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC- Species of Special Concern   NABCI_YWL- Yellow Watch List	Coastal bluff scrub   Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	No habitat for this species present. <b>Not present.</b>

Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	Insects	Endangered	None		Interior dunes	Found only in areas of the Delhi Sands formation in southwestern San Bernardino & northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. shade.	No habitat for this species present. <b>Not present.</b>
Salvadora hexalepis virgultea	coast patch-nosed snake	Reptiles	None	None	CDFW_SSC- Species of Special Concern	Coastal scrub	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	No habitat for this species present. <b>Not present.</b>
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC- Species of Special Concern   USFWS_BCC- Birds of Conservation Concern	Riparian forest   Riparian scrub   Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	No habitat for this species present. <b>Not present.</b>
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	Inland Waters	None	None					No habitat for this species present. Not present.

Spea hammondii	western spadefoot	Amphibians	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened	Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	No habitat for this species present. <b>Not present.</b>
Sternula antillarum browni	California least tern	Birds	Endangered	Endangered	CDFW_FP-Fully Protected   NABCI_RWL-Red Watch List	Alkali playa   Wetland	Nests along the coast from San Francisco Bay south to northern Baja California.	Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	No habitat for this species present. Not present.
Taricha torosa	Coast Range newt	Amphibians	None	None	CDFW_SSC-Species of Special Concern		Coastal drainages from Mendocino County to San Diego County.	Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams.	No habitat for this species present. <b>Not present.</b>

Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Alkali marsh   Alkali playa   Alpine   Alpine dwarf scrub   Bog & fen   Brackish marsh   Broadleaved upland forest   Chaparral   Chenopod scrub   Cismontane woodland   Closed-cone coniferous forest   Coastal bluff scrub   Coastal dunes   Coastal prairie   Coastal scrub   Desert dunes   Desert wash   Freshwater marsh   Great Basin grassland   Great Basin scrub   Interior dunes   lone formation   Joshua tree woodland   Limestone   Lower montane coniferous forest   Marsh &	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No habitat for this species present. <b>Not present.</b>
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Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive	Marsh & swamp   Riparian scrub   Riparian woodland   Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	No habitat for this species present. <b>Not present.</b>
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered	IUCN_NT-Near Threatened   NABCI_YWL-Yellow Watch List	Riparian forest   Riparian scrub   Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	No habitat for this species present. <b>Not present.</b>

## **APPENDIX C**



View of fallow agricultural fields.



View of disturbed areas with agricultural infrastructure.



View of south east portion of the site.



View of stock pond channel.



View of stock pond and channel.



View of eucalyptus woodland.



## **APPENDIX D**

Soil Map—San Bernardino County Southwestern Part, California



Map Scale: 1:6,710 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 300 600 1200 1800 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County Southwestern Part, California  
 Survey Area Data: Version 11, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 10, 2018—Jun 5, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cb	Chino silt loam	103.2	43.3%
Gr	Grangeville fine sandy loam, warm MAAT, MLRA 19	71.8	30.1%
Hr	Hilmar loamy fine sand	47.8	20.1%
TuB	Tujunga loamy sand, 0 to 5 percent slopes	15.6	6.5%
<b>Totals for Area of Interest</b>		<b>238.2</b>	<b>100.0%</b>

**APPENDIX C2**

**ARBORIST REPORT**

# City of Ontario

## Arborist Report- South Ontario Logistics Center

### Tree Evaluation

Prepared for:

**EPD Solutions**

Prepared By:



711 Fee Ana Street

Placentia, CA. 92870

Job Delgadillo

ISA Certified Arborist – WE 11537A

Qualified Applicator #QAL-13357

April 15, 2020

## **Report Overview:**

This report provides an evaluation and recommendations for a variety of tree species for a group of properties located on S. Grove Avenue, Eucalyptus Avenue, Bon View Avenue, and Merrill Avenue, in the city of Ontario as further described below. The entire specific plan boundary is 222.18 acres, but the area with the proposed development and the area that this report encompasses is 130.34 acres. There are approximately (230) trees that were evaluated for this report. The purpose of this report is to provide an evaluation on the health of these trees in order to identify which trees should remain on the project site, either in their present location or if that is not possible, relocate to another area or removed with mitigation, if required. This report provides recommendations for any Heritage, Specimen or Significant trees located at the project site per the Ontario Development Code Tree Preservation Policy and Protection Measures, Section 6.05.020.

## **Location of Property:**

The entire 222.18 acre specific plan project site is located in the city of Ontario, California. The project site (130.34 ac) that this report encompasses is bordered by Grove Avenue, Eucalyptus Avenue, Bon View Avenue, and Merrill Avenue. It is located north of Merrill, south of Eucalyptus and west of Grove.

## **Study Area:**

The 130.34 ac project site was reviewed for trees but the only trees found and evaluated are located around the property 7955 Eucalyptus Avenue, in two rows lining the property of 7920 Merrill, and along Grove Avenue. The two rows of trees at 7920 Merrill Avenue seem to have been planted as a wind break and/or as a property border.

## **Species, Size and Age of Trees:**

There are approximately 16 different species of trees onsite. The majority of trees on site are the two rows of Eucalyptus globulus (Southern Blue Gum) around the address, 7920 Merrill Avenue. Based on the size of the trees, they appear to be over 50 years old. The other trees throughout the

project site are planted around five different structures that appear to be residential properties, all being around 30 years old.

The Eucalyptus globulus, commonly known as southern blue gum, is a species of Eucalyptus that are native to Australia. They may have been used as a wind break, or to designate property lines. The heights of the Eucalyptus trees vary, but majority of them are approximately 40-65 feet tall, and the average DBH (diameter at breast height) is 18”.

Using a measuring tape, trunk diameter was measured at a height of 54 inches above mean natural grade; multiple trunks were measured separately. For multi-trunk trees, each trunk was measured separately and then combined to determine the tree’s total diameter. The height of each tree was estimated from the mean natural grade to the highest branch. Also, the diameter of each tree’s canopy was estimated at its widest point. Each tree assessed was inspected and compared to an archetype tree (considered excellent on all points mentioned below) of the same species. Tree aesthetics were evaluated with respect to overall form and symmetry, crown balance, branching pattern, and broken branches.

The trees onsite were rated in condition on a scale from poor to excellent. A full list of trees including their size and condition is provided below.

<b>Species in</b>	<b>Species</b>	<b>DBH in Inches</b>	<b>Height in Feet</b>	<b>Condition</b>
<b><u>Botanical name</u></b>	<b><u>Common Name</u></b>	<b><u>(approx.)</u></b>	<b><u>(approx.)</u></b>	<b><u>Poor-Excellent</u></b>
Eucalyptus globulus	Blue Gum	32	50	Fair
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	30	50	Fair
Eucalyptus globulus	Blue Gum	22	40	Dead
Eucalyptus globulus	Blue Gum	21	30	Fair
Eucalyptus globulus	Blue Gum	30	40	Poor
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	25	40	Fair
Eucalyptus globulus	Blue Gum	12	20	Dead



Eucalyptus globulus	Blue Gum	23	40	Fair
Eucalyptus globulus	Blue Gum	23	25	Poor
Eucalyptus globulus	Blue Gum	19	25	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	11	20	Dead
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	26	30	Dead
Eucalyptus globulus	Blue Gum	20	30	Dead
Eucalyptus globulus	Blue Gum	22	30	Dead
Eucalyptus globulus	Blue Gum	19	30	Dead
Eucalyptus globulus	Blue Gum	10	30	Dead
Eucalyptus globulus	Blue Gum	7	30	Fair
Eucalyptus globulus	Blue Gum	10	30	Fair
Eucalyptus globulus	Blue Gum	7	30	Fair
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	22	30	Poor
Eucalyptus globulus	Blue Gum	28	25	Poor
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	20	30	Poor
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	5	30	Fair
Eucalyptus globulus	Blue Gum	10	30	Fair
Eucalyptus globulus	Blue Gum	20	20	Fair
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	7	20	Poor
Eucalyptus globulus	Blue Gum	17	30	Poor
Eucalyptus globulus	Blue Gum	17	30	Fair

Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	22	30	Poor
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	15	30	Fair
Eucalyptus globulus	Blue Gum	19	30	Fair
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	17	20	Fair
Eucalyptus globulus	Blue Gum	10	25	Poor
Eucalyptus globulus	Blue Gum	28	50	Dead
Eucalyptus globulus	Blue Gum	26	40	Fair
Eucalyptus globulus	Blue Gum	22	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	21	20	Dead
Eucalyptus globulus	Blue Gum	22	25	Poor
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	22	50	Fair
Eucalyptus globulus	Blue Gum	26	55	Fair
Eucalyptus globulus	Blue Gum	12	20	Fair
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	15	25	Dead
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	15	25	Poor
Eucalyptus globulus	Blue Gum	15	25	Poor
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	28	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Poor
Eucalyptus globulus	Blue Gum	18	40	Dead

Eucalyptus globulus	Blue Gum	20	45	Dead
Eucalyptus globulus	Blue Gum	18	40	Fair
Eucalyptus globulus	Blue Gum	17	45	Fair
Eucalyptus globulus	Blue Gum	17	45	Poor
Eucalyptus globulus	Blue Gum	15	45	Fair
Eucalyptus globulus	Blue Gum	22	40	Fair
Eucalyptus globulus	Blue Gum	5	20	Fair
Eucalyptus globulus	Blue Gum	15	25	Fair
Eucalyptus globulus	Blue Gum	26	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Poor
Juniperus chinensis	Chinese Juniper	40	15	Good
Koelreuteria bipinnata	Chinese Flame	17	15	Good
Pittosporum tobira	Austrian Laurel	10	10	Fair
Pittosporum tobira	Austrian Laurel	20	10	Fair
Juniperus chinensis	Chinese Juniper	15	10	Good
Fraxinus	Ash	36	15	Good
Fraxinus	Ash	32	15	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Fraxinus	Ash	30	15	Good
Ficus benjamina	Weeping Fig	10	20	Good
Ficus benjamina	Weeping Fig	15	20	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Podocarpus gracilior	African Fern	42	40	Good
Pinus canariensis	Canary Island Pine	18	50	Good

Pinus canariensis	Canary Island Pine	19	50	Good
Pinus canariensis	Canary Island Pine	22	50	Good
Pittosporum tobira	Austrian Laurel	14	15	Good
Pittosporum tobira	Austrian Laurel	14	15	Good
Pinus pinea	Stone Pine	35	25	Fair
Pinus pinea	Stone Pine	19	25	Fair
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	6	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Citrus	Citrus Tree	10	8	Good
Citrus	Citrus Tree	10	6	Good
Citrus	Citrus Tree	9	6	Good
Citrus	Citrus Tree	8	10	Good
Citrus	Citrus Tree	8	10	Good
Citrus	Citrus Tree	8	8	Good
Citrus	Citrus Tree	9	8	Good
Cupaniopsis anacardioides	Carrotwood	15	15	Good
Cupaniopsis anacardioides	Carrotwood	14	15	Good
Cupaniopsis anacardioides	Carrotwood	14	10	Good

Cupaniopsis anacardioides	Carrotwood	15	10	Good
Ceiba speciosa	Silk Floss	18	15	Fair
Jacaranda mimosifolia	Jacaranda	10	10	Fair
Fraxinus	Ash	28	30	Good
Ficus benjamina	Weeping Fig	24	25	Good
Ficus benjamina	Weeping Fig	24	25	Good
Ficus benjamina	Stone Pine	24	25	Good
Olea europaea	Olive	21	15	Fair
Olea europaea	Olive	26	20	Fair
Olea europaea	Olive	28	20	Fair
Pinus pinea	Stone Pine	19	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Fair
Eucalyptus globulus	Blue Gum	22	40	Fair
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	15	50	Poor
Eucalyptus globulus	Blue Gum	28	50	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	20	40	Fair
Eucalyptus globulus	Blue Gum	10	40	Poor
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	20	50	Dead
Eucalyptus globulus	Blue Gum	14	50	Fair
Eucalyptus globulus	Blue Gum	18	55	Poor

Eucalyptus globulus	Blue Gum	17	55	Fair
Eucalyptus globulus	Blue Gum	16	25	Fair
Eucalyptus globulus	Blue Gum	11	20	Dead
Eucalyptus globulus	Blue Gum	11	40	Dead
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	15	40	Poor
Eucalyptus globulus	Blue Gum	10	45	Fair
Eucalyptus globulus	Blue Gum	18	45	Dead
Eucalyptus globulus	Blue Gum	10	45	Dead
Eucalyptus globulus	Blue Gum	18	25	Fair
Eucalyptus globulus	Blue Gum	18	25	Dead
Eucalyptus globulus	Blue Gum	17	50	Fair
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	18	50	Poor
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	22	20	Poor
Eucalyptus globulus	Blue Gum	18	50	Dead
Eucalyptus globulus	Blue Gum	10	50	Fair
Eucalyptus globulus	Blue Gum	15	50	Poor
Eucalyptus globulus	Blue Gum	15	50	Fair
Eucalyptus globulus	Blue Gum	28	50	Fair
Eucalyptus globulus	Blue Gum	10	50	Dead
Eucalyptus globulus	Blue Gum	10	55	Dead
Eucalyptus globulus	Blue Gum	28	45	Dead
Eucalyptus globulus	Blue Gum	10	45	Poor
Eucalyptus globulus	Blue Gum	20	50	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	10	45	Dead
Eucalyptus globulus	Blue Gum	15	45	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	20	20	Fair

Eucalyptus globulus	Blue Gum	14	50	Poor
Eucalyptus globulus	Blue Gum	18	50	Poor
Eucalyptus globulus	Blue Gum	17	50	Dead
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	11	45	Dead
Eucalyptus globulus	Blue Gum	11	50	Fair
Eucalyptus globulus	Blue Gum	18	40	Poor
Eucalyptus globulus	Blue Gum	15	25	Fair
Eucalyptus globulus	Blue Gum	10	25	Fair
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	18	45	Dead
Eucalyptus globulus	Blue Gum	18	40	Poor
Eucalyptus globulus	Blue Gum	17	50	Fair
Eucalyptus globulus	Blue Gum	16	50	Dead
Eucalyptus globulus	Blue Gum	18	50	Dead
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	20	50	Fair
Eucalyptus globulus	Blue Gum	10	50	Poor
Eucalyptus globulus	Blue Gum	10	50	Poor
Eucalyptus globulus	Blue Gum	15	50	Dead
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	20	20	Dead
Eucalyptus globulus	Blue Gum	14	45	Fair
Eucalyptus globulus	Blue Gum	18	45	Poor
Eucalyptus globulus	Blue Gum	17	50	Poor
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	11	50	Poor
Eucalyptus globulus	Blue Gum	11	50	Poor
Eucalyptus globulus	Blue Gum	18	20	Fair

Eucalyptus globulus	Blue Gum	15	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Poor
Juniperus chinensis	Chinese Juniper	8	10	Fair
Juniperus chinensis	Chinese Juniper	11	10	Fair
Juniperus chinensis	Chinese Juniper	15	10	Fair
Fraxinus	Ash	28	40	Fair
Ceiba speciosa	Silk Floss	23	40	Fair

**Tree Health and Condition:**

Majority of the trees onsite are in fair condition. No trees have been determined to be in excellent condition. The five residential properties have been regularly irrigated which has allowed the trees to thrive in their current place. Most of the trees are in need of pruning and some have a few failed limbs but overall the trees located around the residential properties are in fair to good condition.

The Eucalyptus rows around the Merrill address have been severely affected by drought. Majority of the trees are in decline and several are already dead. Most of the trees are also infected with Lerp Psyllid, a plant-juice sucking homopterans in the insect family. Lerp psyllid nymphs form a cover called a “lerp” which is a small white, hemispherical cap composed of solidified honeydew and wax. Psyllid nymphs and adults feed by sucking plant phloem sap. High lerp psyllid populations secrete copious honeydew and cause premature leaf drop. Extensive defoliation weakens trees, can increase tree susceptibility to damage from other insects and diseases affecting the trees and can contribute to premature death.

**City Heritage, Significant, and Specimen Trees:**

The Development code (section 6.05.020) addresses heritage trees in the city of Ontario. There are (0) types of trees that fall under the definition of a heritage tree, as noted below.

- Heritage tree – (c) a defining landmark or significant outstanding feature of a neighborhood or district, or typical of early Ontario landscapes, [i] Cinnamomum camphora [ii] Cedrus deodora, and [iii] Platanus acerifolia.



**Recommendations:**

The vast majority of trees located around the address 7920 Merrill Avenue are currently not viable to be maintained in place. This is primarily due to the fact that they have been neglected for years. The lack of irrigation and proper tree maintenance has resulted in numerous dead trees. Most of the remaining other trees appear to be in fair to good health. I have determined that the majority of the trees located around 7920 Merrill Avenue appear to be in poor condition. I recommend that any tree that is in severe decline be removed. I recommend the removal of all dead trees since they pose potential liability should they fall. I do not recommend the relocation of any trees onsite due to the condition they are currently in.

I also recommend a three year management plan be created, and an irrigation system be installed on trees that are not to be removed. However, even with the tree management plan and irrigation system, the tree may not be suitable to be maintained in place. Also, if there are any changes to the existing grade, or digging for infrastructure improvements that would damage the root system of any trees, then the removal of those trees is recommended.

**Conclusion:**

Pursuant to the Development Code Tree Preservation Policy and Protection Measures, section 6.05.020, I have determined that there are no significant or specimen trees on the project site. None of the trees onsite are in excellent condition or have a condition rating greater than 70%. I have determined that no trees need any protective measures to preserve the health of the tree during the development or redevelopment activity. I have also determined that no trees are viable candidates for relocation due to the condition they are currently in.



**Aerial of Site**



**Windrow Trees**



**Eucalyptus on Site**



**Lerp Psyllid**

**APPENDIX C3**

**FOCUSED BURROWING OWL SURVEY**



## ***Focused Burrowing Owl Surveys***

***±130.0-acre South Ontario Logistics Center Site***

***Site Location:***

City of Ontario  
San Bernardino County, California  
Prado Dam 7.5-minute Quadrangle Map  
Township 2 South, Range 7 West

***Prepared for:***

Jeff Johnston  
Real Estate Development Associates (REDA)  
4450 MacArthur Boulevard, Ste. 100  
Newport Beach, CA 92660  
949.954.3087

***Prepared by:***

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October 16, 2019  
Updated December 30, 2020



December 30, 2020

Jeff Johnston  
Real Estate Development Associates (REDA)  
4450 MacArthur Boulevard, Ste. 100  
Newport Beach, CA 92660

**SUBJECT: Results of a Focused Burrowing Owl Surveys, ±130-acre South Ontario Logistics Center Site, City of Ontario, San Bernardino County, California**

Dear Jeff:

This letter report presents results of focused surveys conducted to evaluate the presence/absence of the special-status burrowing owl (*Athene cunicularia*-BUOW) on a ±130-acre site. Please note that this ±130-acre site is located within the larger specific plan boundary of ±222 acres, however, the subject study area with the currently proposed development consists of ±130 acres. Please note that the difference in acreage from other project-related reports (±92 acres) would be programmatically analyzed at a later date, and therefore the additional acreage was not included in this focused BUOW study.

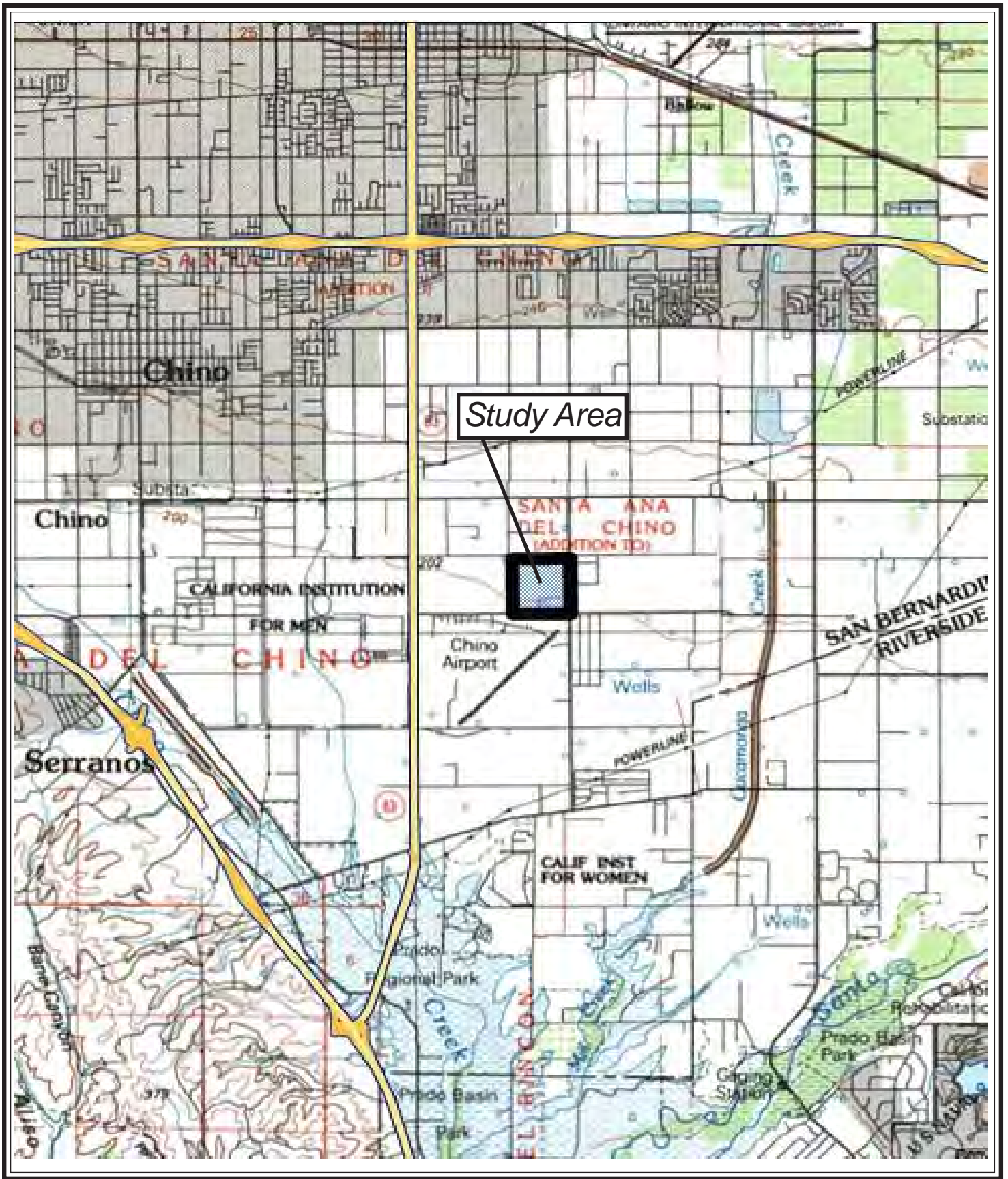
### **Introduction**

The project site is located in San Bernardino County, California (**Plate 1**). Specifically, the site is located in the City of Ontario north of Merrill Avenue, south of Eucalyptus Avenue, east of Bon View Avenue, and west of Grove Avenue. The site occurs on the "Prado Dam" California USGS 7.5-minute quadrangle map, Township 2 South, Range 7 West (**Plate 2**).

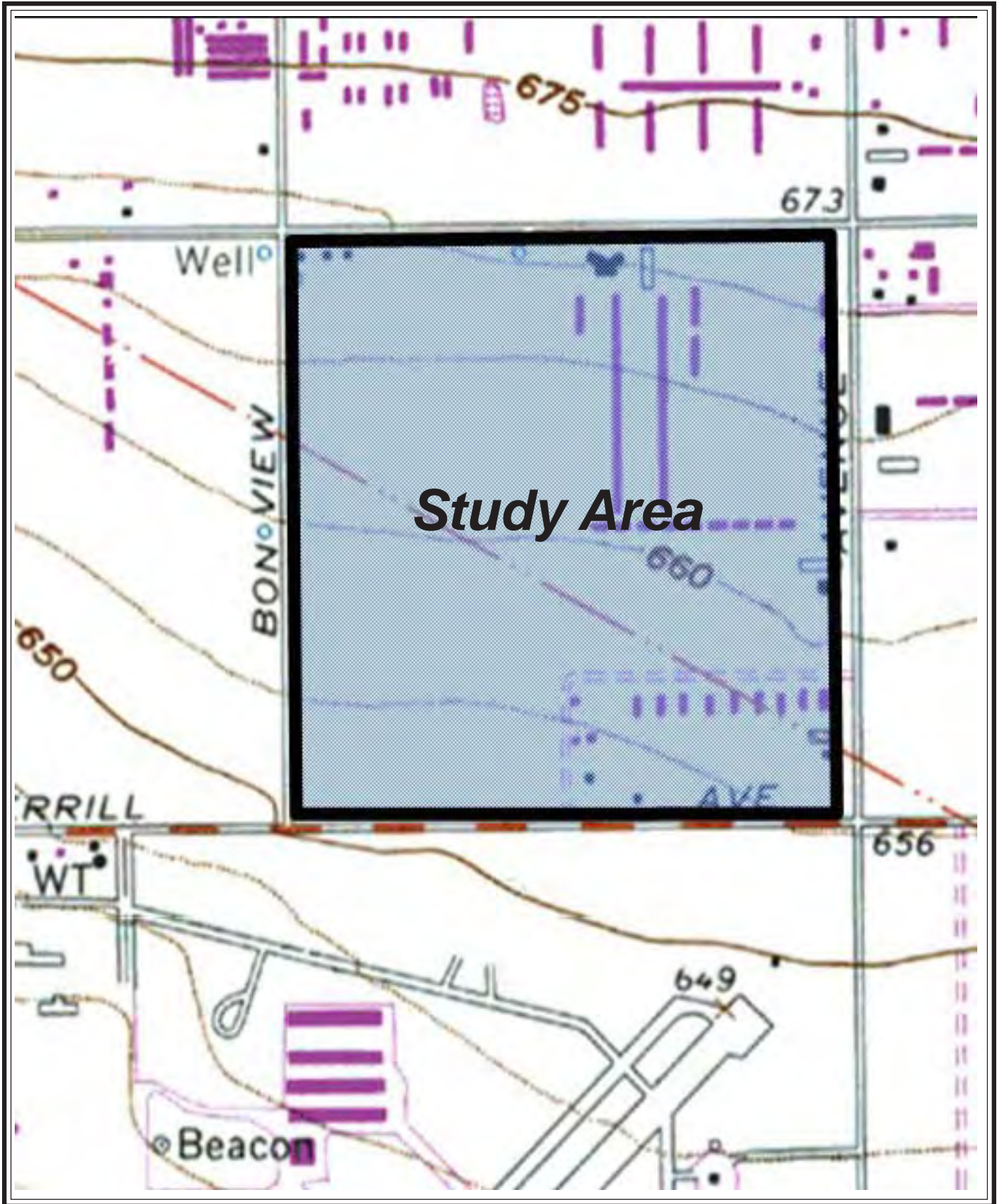
Projects proposed in the area that contain potentially suitable habitat to support sensitive biological resources must demonstrate to reviewing agencies [e.g., U.S. Fish and Wildlife Service (FWS), California Department of Fish and Game (CDFG-more recently Department of Fish and Wildlife or CDFW), County of San Bernardino (County), City of Ontario (City)] that potential project-related impacts to sensitive biological resources are adequately addressed and mitigated pursuant to the California Environmental Quality Act (CEQA) and other environmental regulations as part of project approval. For the purposes of this report, both the 1995 CDFG Staff Report on Burrowing Owl Mitigation and the 2012 CDFG Staff Report on Burrowing Owl Mitigation are referenced to provide background information.

### **Selected Species Overview / Regulatory Background**

The **western burrowing owl** is considered a California Species of Special Concern, Federal Species of Concern, Partners in Flight Priority Bird Species, and Fish and Wildlife Service Species of Management Concern because of declines of suitable habitat, as well as localized and statewide population declines (CDFG 1995, 2012). Burrowing owls range across most of western North America. In coastal southern California, they occur in annual and perennial grasslands, agricultural areas, and coastal dunes. Habitat characteristics also include deserts and arid scrublands that contain low-growing vegetation (Zarn 1974). It is believed that burrowing owls may potentially occur wherever there are ground squirrel (e.g., *Spermophilus beecheyi*) colonies as this owl uses ground squirrel burrows throughout the year. Burrows are the essential component of burrowing owl habitat (CDFG 1995), however, burrowing owls are also known to use artificial burrows under certain circumstances such as abandoned concrete structures and debris piles. The BUOW generally prefers moderately to heavily grazed grasslands for nesting and







**Site Vicinity**

South Ontario Logistics Center Site

roosting and avoids recently cultivated/disc'd fields. BUOW may utilize multiple burrows/sites throughout the year (e.g., small seasonal migrations), although in central and southern California, owls are predominantly non-migratory (CBOC 2000).

While this special-status species is not protected by state or federal endangered species acts, take, possession or destruction of individual burrowing owls, their nests and eggs is prohibited under CDFG code sections 3503, 3503.5 and 3513, as well as the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). Under CEQA, goals would consist of measures that would avoid, minimize and mitigate impacts to a less than significant level. For individual projects, mitigation must be roughly proportional to the level of impacts, including cumulative impacts, in accordance with the provisions of CEQA (CEQA Guidelines, §§ 15126.4(a)(4)(B), 15064, 15065, and 16355). If it were later determined that active nests would be lost as a result of site-preparation, it would be in conflict with these regulations, and could also be considered a significant impact under CEQA without mitigation. In order to avoid violation of the MBTA and CDFG Code requirements, CDFG guidelines (1995, 2012) suggest that project-related disturbances at active nesting territories be reduced or eliminated during the BUOW nesting/breeding cycle (typically February 1 to August 31). Accordingly, construction should take place, as much as possible, outside of the breeding season for BUOW (i.e., construction between September 1 to January 31) to avoid or reduce potential impacts to this species. However, BUOW nesting activity is variable, and as such the time frame should be adjusted accordingly based on specific site information.

Owl survival can be adversely affected by disturbance (e.g., foraging habitat loss) even when impacts to individual birds and nest/burrows are avoided (CDFG 1995). Recommended restricted activity dates and setback distances by level of disturbance for burrowing owls (Scobie and Faminow 2000 in 03/7/12 CDFG BUOW Staff Report) are provided below in Table 1.

**Table 1- CDFG Recommended Restricted Activity Dates and Setback Distances by Level of Disturbance for BUOW**

Location	Time of Year	Level of Disturbance		
		Low	Medium	High
Nesting sites	April 1-Aug 15	200 m*	500 m	500 m
Nesting sites	Aug 16-Oct 15	200 m	200 m	500 m
Nesting sites	Oct 16-Mar 31	50 m	100 m	500 m

\*meters (m). Table and text excerpted directly from 2012 CDFG BUOW Staff Report

Note: Based on existing vegetation, human development, and land uses in an area, resource managers may decide to allow human development or resource extraction closer to these area/sites than recommended above. However, if it is decided to allow activities closer than the setback distances recommended, a broad-scale, long-term, scientifically-rigorous monitoring program ensures that burrowing owls are not detrimentally affected by alternative approaches.

Mitigation measures detailed in the CDFG 1995 staff report include: (1) preservation of habitat, (2) artificial burrow construction, and (3) provide funding for long-term management and monitoring of protected mitigation lands. Mitigation measures successfully implemented for this species also include giving the Service/CDFW right of first refusal for actively relocating any BUOW present. Currently occupied receiving sites may be available where this species has a greater chance of successful long-term relocation. Other minimization measures include eliminating actions that reduce burrowing owl forage and burrowing surrogates (e.g. ground squirrel), or introduce/facilitate burrowing owl predators. Actions that could influence these factors include reducing livestock grazing rates and/or changing the timing or duration of grazing or vegetation management that could result in less suitable habitat (CDFG 2012).

Implementation of avoidance and minimization measures would be triggered by positive owl presence on the site where project activities would occur. The development of avoidance and minimization

approaches would be developed by monitoring. BUOW may re-colonize a site after only a few days. Time lapses (i.e. construction delays) between project activities would trigger subsequent take avoidance surveys including but not limited to a final survey conducted within 24 hours prior to ground disturbance (CDFG 2012). Should eggs or fledglings be discovered in any owl burrow or native nest, these resources cannot be disturbed (pursuant to CDFW guidelines) until the young have hatched and fledged (matured to a stage that they can leave the nest on their own). Take of active nests should always be avoided. If owls must be moved away from the disturbance area, passive relocation techniques (where applicable outside of the breeding season before breeding behavior is exhibited and after the burrow is confirmed empty by site surveillance) should be used rather than trapping (CDFG 2012). If burrow exclusion and/or burrow closure is implemented, BUOWs should not be excluded from burrows unless or until: (1) a Burrowing Owl Exclusion Plan is developed and approved by the applicable local CDFW office; and (2) permanent loss of occupied burrow(s) and habitat is mitigated in accordance with the Mitigating Impacts (CDFG 2012).

## ***Methodology***

### ***Review of Existing Information***

Existing documentation pertinent to the distribution and habitat requirements of the burrowing owl was reviewed and analyzed. This included a review of: (1) the California Natural Diversity Data Base (CNDDDB 2019), (2) both the 1995 CDFG Staff Report on Burrowing Owl Mitigation and the 2012 CDFG Staff Report on Burrowing Owl Mitigation, and (3) other literature pertaining to habitat requirements of the BUOW as referenced herein.

### ***2019 Focused BUOW Surveys***

The BUOW surveys were conducted in accordance with the March 7, 2012 CDFG Staff Report on Burrowing Owl Mitigation. These guidelines include searches for BUOW, burrows (natural and artificial), and BUOW sign by walking parallel transects (where feasible) through suitable habitat over the entire survey area [i.e., the project site and within a 150 meter (500 feet) buffer area where feasible or at least by visual means]. Upon arrival at the survey area and prior to initiating the walking surveys, the biologist used binoculars and/or spotting scope to scan suitable habitat. Ecological Sciences' Principal Biologist, Scott Cameron, initiated the first of four total focused breeding season BUOW surveys on April 15, 2019. Subsequent surveys were conducted on May 11, June 16, and July 6. Mr. Cameron has extensive experience conducting habitat assessments and focused burrowing owl surveys over the past 25 years, and has recorded numerous BUOW over the course of 100+ surveys throughout southern California. Mr. Cameron has also conducted passive relocation activities, used burrow probes, and conducted burrow closing procedures for multiple projects.

Per the Staff Report, the breeding season BUOW surveys included a review of pertinent information of the project site and vicinity and a series of four focused burrowing owl surveys conducted according to the 2012 California Department of Fish and Game (CDFG April 7, 2012) Staff Report on Burrowing Owl Mitigation. The Staff reports requires at least one site visit between 15 February and 15 April, and a minimum of three survey visits, at least three weeks apart, between 15 April and 15 July, with at least one visit after 15 June. Surveys would be conducted by walking straight-line transects spaced 7 meters (23 feet) to 20 meters (65 feet) apart, adjusting for vegetation height and density using standard auditory and visual means. At the start of each transect and, at least, every 100 m (328 feet), the entire visible project area would be scanned for BUOW using binoculars. During walking surveys, a record of all potential burrows used by burrowing owls as determined by the presence of one or more burrowing owls, pellets, prey remains, whitewash, or decoration would be recorded. Surveys should not be conducted when wind speed is >20 kilometers/hour (>12.5 miles/hour), and/or if there is precipitation or dense fog. Surveys have greater detection probability if conducted when ambient temperatures are >20° Celsius (>68° Fahrenheit), <12 km/hr winds (<7.5 miles/hr), and cloud cover is <75%. Surveys would be conducted between morning civil twilight and 10:00 a.m. and two hours before sunset until evening civil twilight

(highest detection probabilities). It is assumed that a copy of this report would be forwarded to the lead agency at the discretion of the project applicant in order to comply with conditions of approval (where applicable).

Focused BUOW surveys were conducted to determine if the BUOW was foraging on or adjacent to the site. Transects were spaced to allow 100 percent visual coverage of the ground surface. The distance between transect center lines was no more than 20 meters ( $\pm 65$  feet) and were reduced (as necessary) to account for differences in terrain, vegetation density, and ground surface visibility. Periodic stops along each transect (generally at 100 meter intervals) and at the end of each transect were implemented to scan the site for BUOW with binoculars. Suitable burrows were examined for sign of BUOW use such as the presence of owl pellets, prey remains, or feathers at burrow entrances. Suitable burrows (burrows that are open and wide enough for owl use), regardless if owl sign was recorded, were noted. Burrows (where present) were inspected with the aid of a mirror to better view burrow interiors. Per protocol, surveys were conducted during weather that was conducive to observing owls outside their burrows and detecting BUOW sign. Focused surveys were conducted two hours before sunset until evening civil twilight (highest detection probabilities). Weather conditions through the survey period included clear skies, scattered clouds, and partly cloudy (<50% cover), 1-8 mph variable breezes, and air temperatures ranging between 60-78 °F. Accordingly, weather conditions were conducive for above-ground BUOW activity. Daily temperatures and timing are presented in Table 2.

**Table 2- Daily Weather Conditions/Surveyor (2019)**

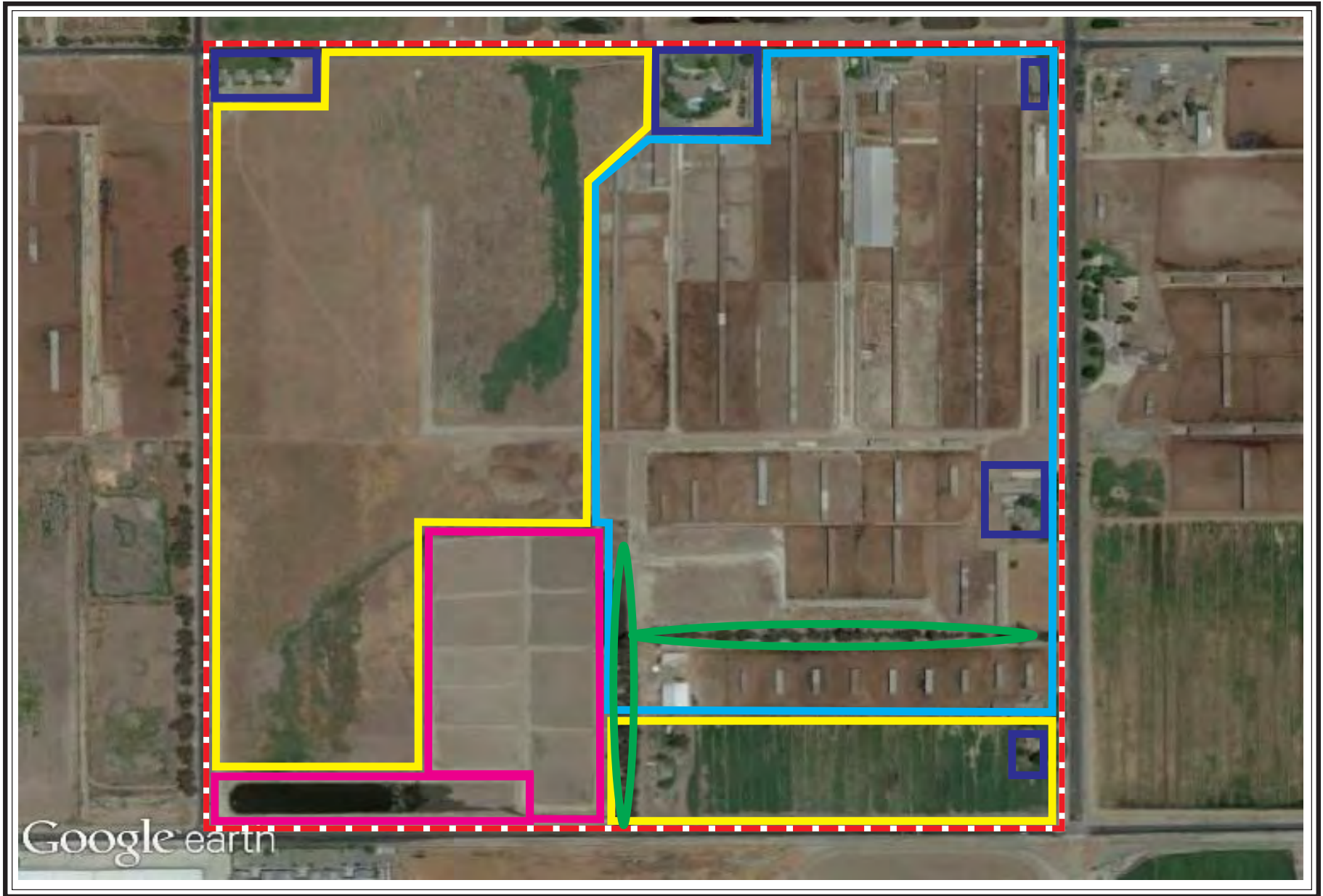
<b>Date</b>	<b>Time</b>	<b>Wind (mph)</b>	<b>Temp (°F)</b>	<b>Surveyor</b>
April 15	630am-945am	0-1	60-70	S. Cameron
	545pm-745pm	1-2	68-61	S. Cameron
May 11	630am-950am	1-3	60-71	S. Cameron
	600pm-745pm	1-2	75-67	S. Cameron
June 16	610am-1000am	1-7	66-70	S. Cameron
	600pm-730pm	0-2	74-67	
July 6	615am-1000am	1-8	67-78	S. Cameron
	600pm-800pm	1-4	80-71	S. Cameron

### **Existing Biological Environment**

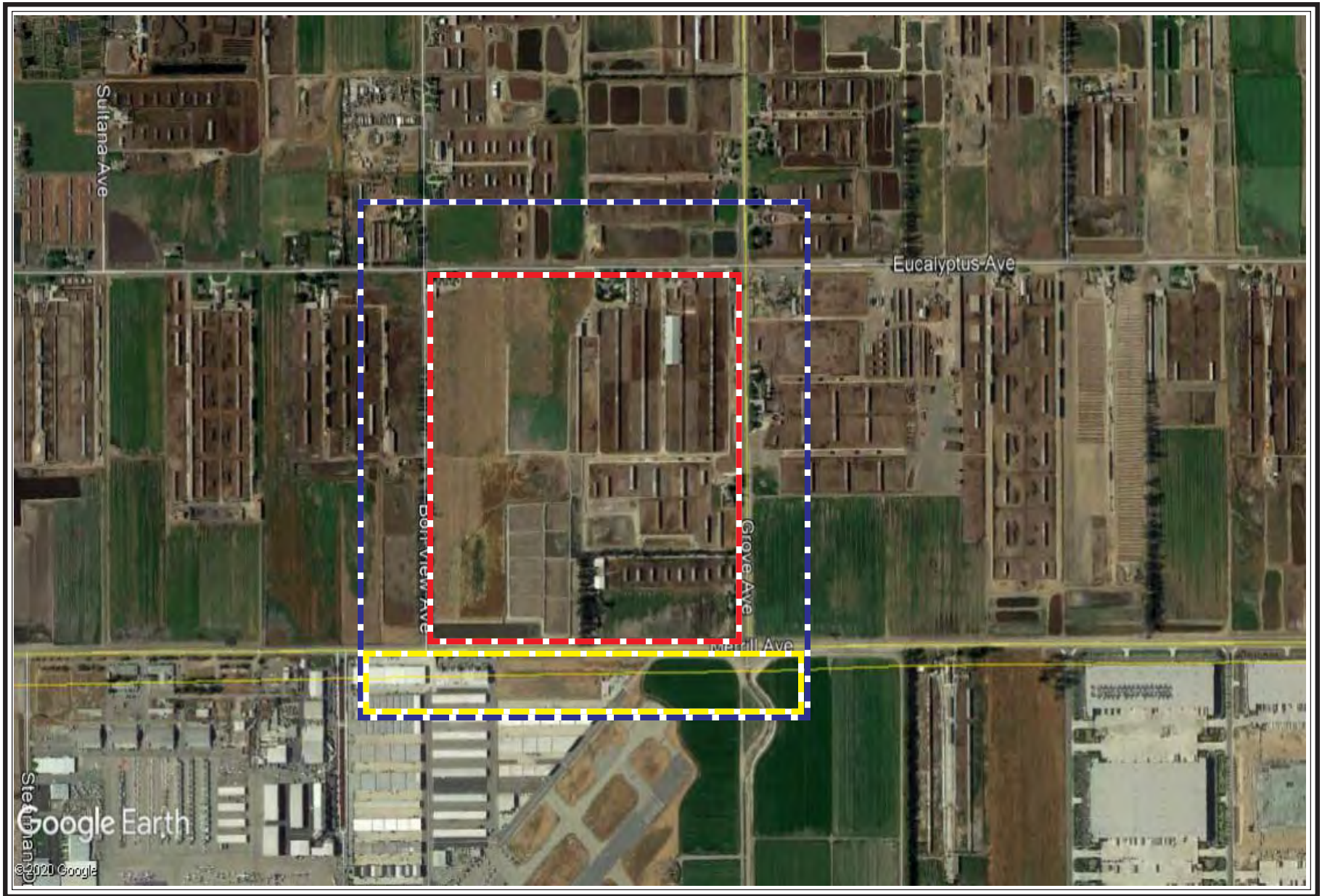
The subject site is characterized primarily as an active dairy operation. The site contains several single-family residences, multiple dairy-related structures (sheds, corrals, etc.), feeding preparation areas, numerous waste ponds/basins, cultivated/disc'd areas, manure spreading areas, and debris dumping areas. The ruderal/disturbed areas support mostly invasive, non-native annual species. Manure, associated with the ongoing dairy operation, is present throughout most of the site. Cattle feeding areas were barren ground covered in manure and mud. Surrounding land uses include agricultural areas similar to the subject site. **Plate 3** schematically illustrates site features. **Plate 4** illustrates survey and buffer areas.

### **Vegetation**

Ruderal plants recorded on site included various non-native grasses and weedy species such as foxtail chess (*Bromus madritensis* spp. *rubens*), ripgut grass (*Bromus diandrus*), Bermuda grass (*Cynodon dactylon*), Mediterranean grass (*Schismus barbatus*), filaree (*Erodium* sp.), Lamb's quarter's (*Chenopodium album*), milk thistle (*Silybum marianum*), Russian thistle (*Salsola tragus*), puncture vine (*Tribulus terrestris*), black mustard (*Brassica nigra*), cheeseweed (*Malva parviflora*), nettle (*Urtica* sp.), tree tobacco (*Nicotiana glauca*), and gum (*Eucalyptus* sp.).




- - - = Study Area
- = Rural Residential
- = Disced Rural Field
- = Detention/Retention Basins
- = Corrals/Feed Areas
- = Windrow



December 2020

 = Project Area

 = ~500-foot Buffer Area (pedestrian and visual)

 = Visual Survey Only

*plate 4*

## ***Project and Buffer Areas***

South Ontario Logistics Center Site

## Survey Results

No direct BUOW observations were recorded during the April-July 2019 focused BUOW breeding season surveys. None of the potential burrows inspected during the survey were determined to be currently occupied by BUOW based on absence of BUOW observations and sign (feathers, pellets, fecal material, prey remains, etc.) at or near burrow entrances/aprons. BUOW were also not observed utilizing the site or adjacent areas for foraging purposes (adjacent areas to south viewed by binocular only-Chino Airport). The project site and adjacent buffer areas support potentially suitable BUOW habitat outside those areas exposed to recurring and extensive disturbances associated with routine dairy operations.

Avian species observed on site included turkey vulture (*Cathartes aura*), red-tailed hawk (*Buteo jamaicensis*), common raven (*Corvus corax*), American crow (*Corvus brachyrhynchos*), killdeer (*Charadrius vociferus*), European starling (*Sturnus vulgaris*), rock pigeon (*Columba livia*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), Brewer's blackbird (*Euphagus cyanocephalus*), western meadowlark (*Sturnella neglecta*), house finch (*Carpodacus mexicanus*), and house sparrow (*Passer domesticus*). Mammal species directly observed, or of which sign was detected, included California ground squirrel (*Spermophilus beecheyi*), desert cottontail (*Sylvilagus auduboni*), and pocket gopher (*Thomomys bottae*).

Despite that fact that the site has been exposed to long-standing disturbances, BUOW often occur in less than optimal and/or disturbed conditions. If it were later determined that active nests of BUOW would be lost as a result of site-preparation, it could result in CEQA significant adverse impacts and would be in conflict with CDFW code sections. Although no BUOW were recorded on or adjacent to the site, it is recommended by CDFW to complete an initial take avoidance survey no less than 14 days prior to initiating ground disturbance activities. Implementation of avoidance and minimization measures would be triggered by positive owl presence on the site where project activities would occur. The development of avoidance and minimization approaches would be evaluated by monitoring burrowing owls (if present on site). BUOW may re-colonize a site after only a few days. Time lapses between project activities trigger subsequent take avoidance surveys including but not limited to a final survey conducted within 24 hours prior to ground disturbance (CDFW 2012).

---

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological survey, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief.

Sincerely,

Ecological Sciences, Inc.



Scott D. Cameron  
Principal Biologist

## References

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**APPENDIX D**  
**CULTURAL REPORTS**

**APPENDIX D1**

**CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT**



**Submitted to:**

**Norah Jaffan  
E|P|D Solutions, Inc.  
Irvine, California**

**Prepared on Behalf of:**

**Euclid Land Ventures, LLC  
Newport Beach, CA**

**CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT**

**South Ontario Logistics Center Project**

**City of Ontario, San Bernardino County, California**



**PHASE 1 CULTURAL AND PALEONTOLOGICAL  
RESOURCES ASSESSMENT:  
SOUTH ONTARIO LOGISTICS CENTER PROJECT  
CITY OF ONTARIO, SAN BERNARDINO COUNTY, CALIFORNIA**

**Prepared for:**

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Julia Carvajal, M.A. Archaeologist

**Historic Resource Survey and Evaluation prepared by:**

Pamela Daly, M.S.H.P., Daly & Associates

**March 2020**

**MCC Project Number:** 20180908

**Type of Study:** Cultural and Paleontological resources assessment

**Cultural/ Paleontological Resources within Area of Potential Impact:** George Borba & Son Dairy

**Paleontological Formations:** younger Quaternary alluvium, older Quaternary alluvium

**USGS 7.5-minute Quadrangle(s):** Section 20 of Township 2 S, Range 7 W, Prado Dam

**Survey Area:** 206.8 acres

**APN(s):** 1054-081-03, 1054-091-01, 02; 1054-071-01, -02, and 1054-241-01, -02, 1054-101-01, -02, 1054-231-01, -02, 1054-311-01, -02, 1054-051-010, 1054-061-01, 1054-251-01, 1054-30-101, 1054-051-02, 1054-061-02, 1054-251-02, 1054-301-02

**Date of Fieldwork:** September 21, 2018

**Key Words:** Archaeology, Paleontology, CEQA, Phase I Survey, Positive Report, Younger Quaternary Alluvium, Older Quaternary Alluvium, Low Paleontological Sensitivity, Moderate Paleontological Sensitivity, San Bernardino County, City of Ontario, Historic Dairy, New Model Colony

## MANAGEMENT SUMMARY

Euclid Land Ventures, LLC (Proponent) proposes the development of new warehouse facilities, as supporting preparation of the Specific Plan and Project (hereto after referred to as Project or Project Area). The Specific Plan is located on 222.18 acres of land with proposed development on only 130.34 acres at the southwest corner of Eucalyptus Avenue and South Grove Avenue, and 80 acres for programmatic analysis located across the south west corner of Eucalyptus Avenue and Bon View Avenue and the northeast corner of Merrill Ave. and S. Grove Ave., in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc. (MCC) was initially retained by EPD Solutions, Inc. (EPD) to conduct a Phase I cultural and paleontological resource investigation of 142 acres of the Specific Plan Area in July 2018. These assessments were conducted in accordance with the California Environmental Quality Act (CEQA), along with local regulations and guidelines. This assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a locality search at the National History Museum of Los Angeles County (LACM), an examination of geological maps and paleontological literature, a search of the Sacred Lands File by the Native American Heritage Commission (NAHC), outreach efforts with Native American tribal representatives, and a pedestrian survey. In January 2020, MCC was retained by the EPD to conduct a supplemental assessment of an expanded Project Area encompassing an additional 80 acres. This assessment included an additional CHRIS records search and notification of the expanded area to Native American tribal representatives identified by the NAHC. A survey was not conducted for the 80-acre expansion as it was only being programmatically analyzed. Should the 80 acres be developed in the future, a formal survey will need to be conducted.

The SLF search did not identify any previously known cultural resources within the entire Specific Plan Area. On October 24 and November 12, 2018, MCC sent informational letters and maps to Native American representatives designated by the NAHC and local Native American representatives known by MCC to have an interest in the area. Nine Native American Tribes and/or individuals were identified by the NAHC as contacts for knowledge of cultural resources in the Project Area. In addition, 13 individuals not identified by the NAHC, but known to MCC to have interest in the area were contacted. Additional attempts at contact by letter, email, or phone call were made on November 12, and November 27, 2018. MCC did not conduct formal consultation with the Native American representatives. As a result of this outreach effort, MCC received six responses from Native American Tribes or individuals. No specific cultural resources were identified in the responses; however, three Native American Tribes stated an interest in the Project and provided comments. On January 30, 2020, MCC sent informational letters and maps of the expanded Project Area to the nine Native American Tribes and/or individuals identified by the NAHC as contacts to have knowledge of cultural resources in the Project Area. MCC did not conduct formal consultation with the Native American representatives. As a result of this additional outreach effort, MCC received one response from Morongo Band of Mission Indians regarding the extended Project Area. No specific cultural resources were identified in the response. MCC did not conduct formal consultation with the Native American representatives. These results are summarized in the Native American outreach and Background Research section of this report and in Appendix C.

The CHRIS records searches in 2018 and 2020 identified nineteen cultural resources investigations previously conducted within a 1-mile radius buffer around the entire Specific Plan Area, none of which are located within or adjacent to the Specific Plan Area. The cultural records search identified nine previously recorded cultural resources within a 1-mile radius of the Specific Plan Area. A review of historical aerial photographs and maps show the entire Specific Plan Area has been consistently used for agricultural and dairy activities since the 1930s. These historic aerials and maps depict structures located in the northwestern corner of the initial Project Area and at least one structure near the northeastern corner of the Project Area since the early 1930s.

The Specific Plan Area is comprised of younger Quaternary Alluvium, derived broadly from the San Bernardino Mountains to the north. These deposits typically do not contain significant vertebrate fossils within the uppermost layers, however, it is likely that the Specific Plan Area is underlain by older Quaternary deposits at an unknown depth. No previously recorded fossil localities are located within one mile of the Project Area.

Judy Cardoza, MCC Archaeologist and Cross-Trained Paleontologist, conducted the cultural and paleontological survey of the Specific Plan Area on September 21, 2018. During fieldwork, survey conditions were generally poor with majority of the Specific Plan Area (130.34 acres) utilized by ongoing agricultural activities and dairy cattle pasture / enclosures. The property has been previously disturbed by agricultural and dairy operations conducted by the current owners. A total of seven historic structures were identified during the survey, comprising the George Borba & Sons Dairy. The recordation and assessment of this property was conducted by Pamela Daly, MSHP, and found to be ineligible for the California Register of Historical Resources and the National Register of Historical Resources. No paleontological resources were observed during the survey. An additional survey for the supplemental assessment was deemed not necessary due to the area only being programmatically analyzed.

Based on the above findings, the probability of encountering significant cultural or paleontological resources within the Specific Plan Area is considered low. MCC recommends no further mitigation measures prior to implementation of projects within the Specific Plan. While we do not recommend additional mitigation, we do recommend including a section in the Specific Plan which addresses inadvertent discoveries of cultural materials and/or human remains, should these be encountered during any projects within the Specific Plan Area.

Excavation extending more than ten feet below surface has the potential to impact the paleontologically sensitive older Quaternary sediments. If excavation associated with this project extends deeper than ten feet below surface, MCC recommends that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the current study area, should these be unearthed during ground disturbance associated with any project within the Specific Plan Area.

A copy of this report will be permanently filed with the SCCIC at California State University, Fullerton. All notes, photographs, correspondence and other materials related to this Project are located at MCC, Inc located in Pomona, California.

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## INTRODUCTION

Euclid Land Ventures, LLC (Proponent) proposes the development of new warehouse facilities, as supporting preparation of the Specific Plan and Project (hereto after referred to as Project or Project Area). The Specific Plan is located on 222.18 acres of land, with proposed development on only 130.34 acres at the southwest corner of Eucalyptus Avenue and South Grove Avenue, and 80 acres for programmatic analysis located across the south west corner of Eucalyptus Avenue and Bon View Avenue and the northeast corner of Merrill Ave. and S. Grove Ave., in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc. (MCC) was initially retained by EPD Solutions, Inc. (EPD) to conduct a Phase I cultural and paleontological resource investigation of the 142 acre Specific Plan Area in July 2018. These assessments were conducted in accordance with the California Environmental Quality Act (CEQA), along with local regulations and guidelines. This assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a locality search at the National History Museum of Los Angeles County (LACM), an examination of geological maps and paleontological literature, a search of the Sacred Lands File by the Native American Heritage Commission (NAHC), outreach efforts with Native American tribal representatives, and a pedestrian survey. In January 2020, MCC was retained by the EPD to conduct a supplemental assessment of an expanded Project Area encompassing an additional 80 acres. This assessment included an additional CHRIS records search and notification of the expanded area to Native American tribal representatives identified by the NAHC. A survey was not conducted for the 80-acre expansion as it was only being programmaticaly analyzed. Should the 80 acres be developed in the future, a formal survey will need to be conducted.

### PROJECT LOCATION AND DESCRIPTION

The proposed Specific Plan is located at the northwest corner of Eucalyptus Avenue and South Grove Avenue and the southwest corner of Eucalyptus Avenue and Bon View Avenue, in the City of Ontario, San Bernardino County, California (Figures 1 and 2). The Specific Plan Area is bounded by Eucalyptus Avenue to the north, dairy farms to the west, by Merrill Avenue to the south, and South Grove Avenue to the east, and intersected by Bon View Avenue (Figure 3). Specifically, this Specific Plan Area is located on Section 20 of the USGS 7.5-minute Prado Dam, California topographic map, Township 2 South, Range 7 West (Figure 2). The Specific Plan Area consists of twenty-one parcels, identified as Assessor's Parcel Numbers (APNs) 1054-081-03, 1054-091-01, 02; 1054-071-01, -02, and 1054-241-01, -02, 1054-101-01, -02, 1054-231-01, -02, 1054-311-01, -02, 1054-051-010, 1054-061-01, 1054-251-01, 1054-30-101, 1054-051-02, 1054-061-02, 1054-251-02, 1054-301-02. Presently, the Specific Plan Area contains an operational dairy farm and single-family residences. The Project proposes the construction of eight buildings consisting of warehouses and office locations. Currently, no major utilities connect to undeveloped projects within the Specific Plan Area and projected onsite improvements will include storm drains, water quality systems, a sewer main and sewer lines, water lines, and dry utility connections

### PROJECT PERSONNEL

Tria Belcourt, M.A., RPA, President of MCC, served as the Project Manager and Principal Archaeologist for the study. Ms. Belcourt oversaw the project and performed editorial review of this report. Belcourt is a Registered Professional Archaeologist (RPA) with a M.A. in Anthropology from the University of Florida, a B.A. in Anthropology from the University of California at Los Angeles with over twelve years of experience in California archaeology and 8 years of experience overseeing paleontological assessments in California (See Appendix A). Jennifer Kelly, M.S., served as the Principal Investigator for Paleontology for the study. Ms. Kelly conducted the paleontological resource literature and map reviews, oversaw the field study, and prepared the paleontological sections of the report. Ms. Kelly has a M.Sc. in Geology from California State University, Long Beach, and has over ten years of experience in environmental and paleontological compliance in California (See Appendix A). Pamela Daly, MSHP, conducted the historical resource survey and evaluation. Ms. Daly has over 30 years of experience as an architectural historian and is especially familiar with the requirements of the City of Ontario. Judy Cardoza, MCC

Archaeologist and Cross-trained Paleontologist, conducted the records search and field survey. Julia Carvajal, B.S., provided co-authorship of this report and GIS support for this study. Sonia Sifuentes, M.Sc, RPA, provided co-authorship of this report.

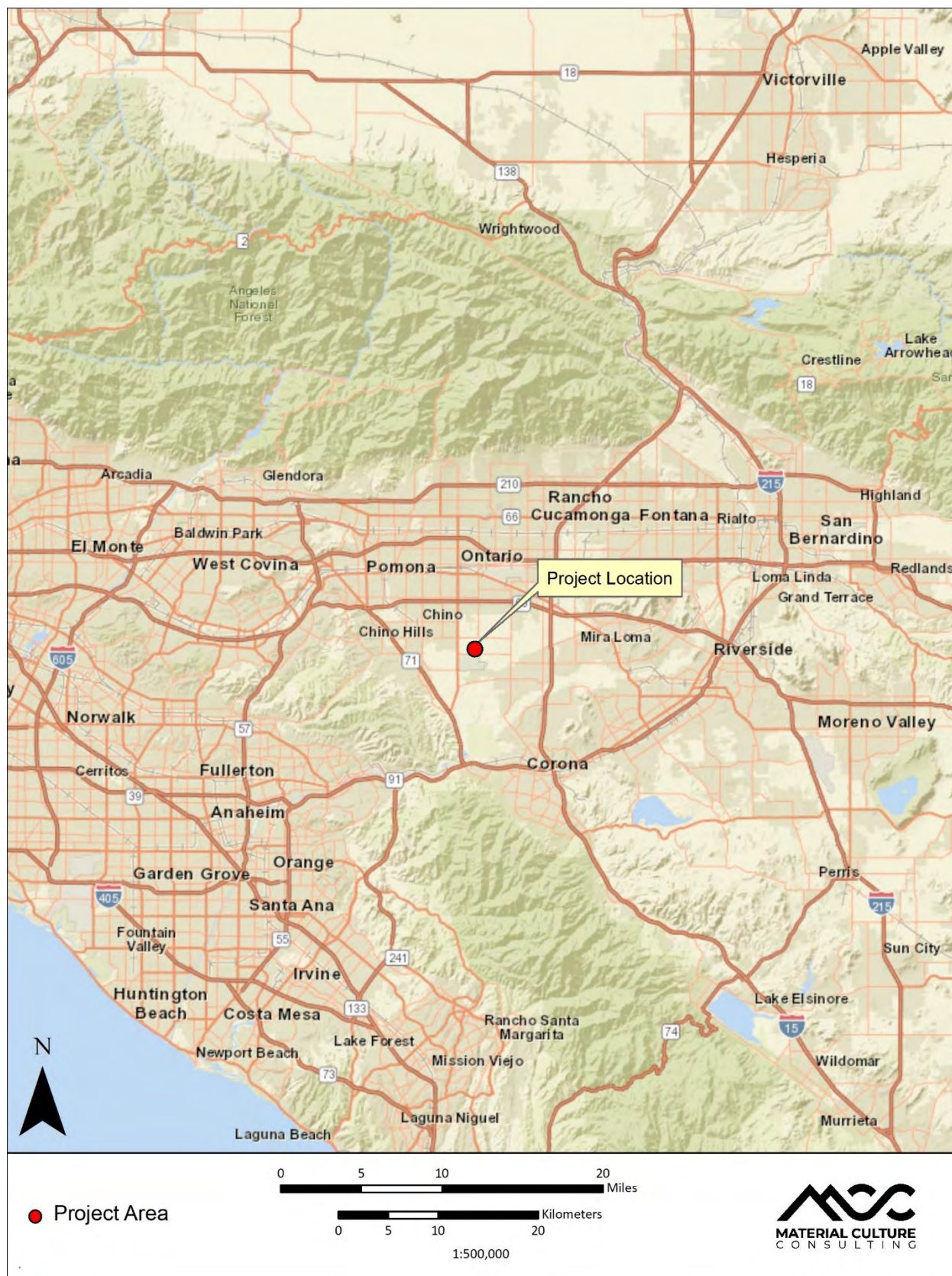


Figure 1. South Ontario Logistics Center Project Location (1:500,000)

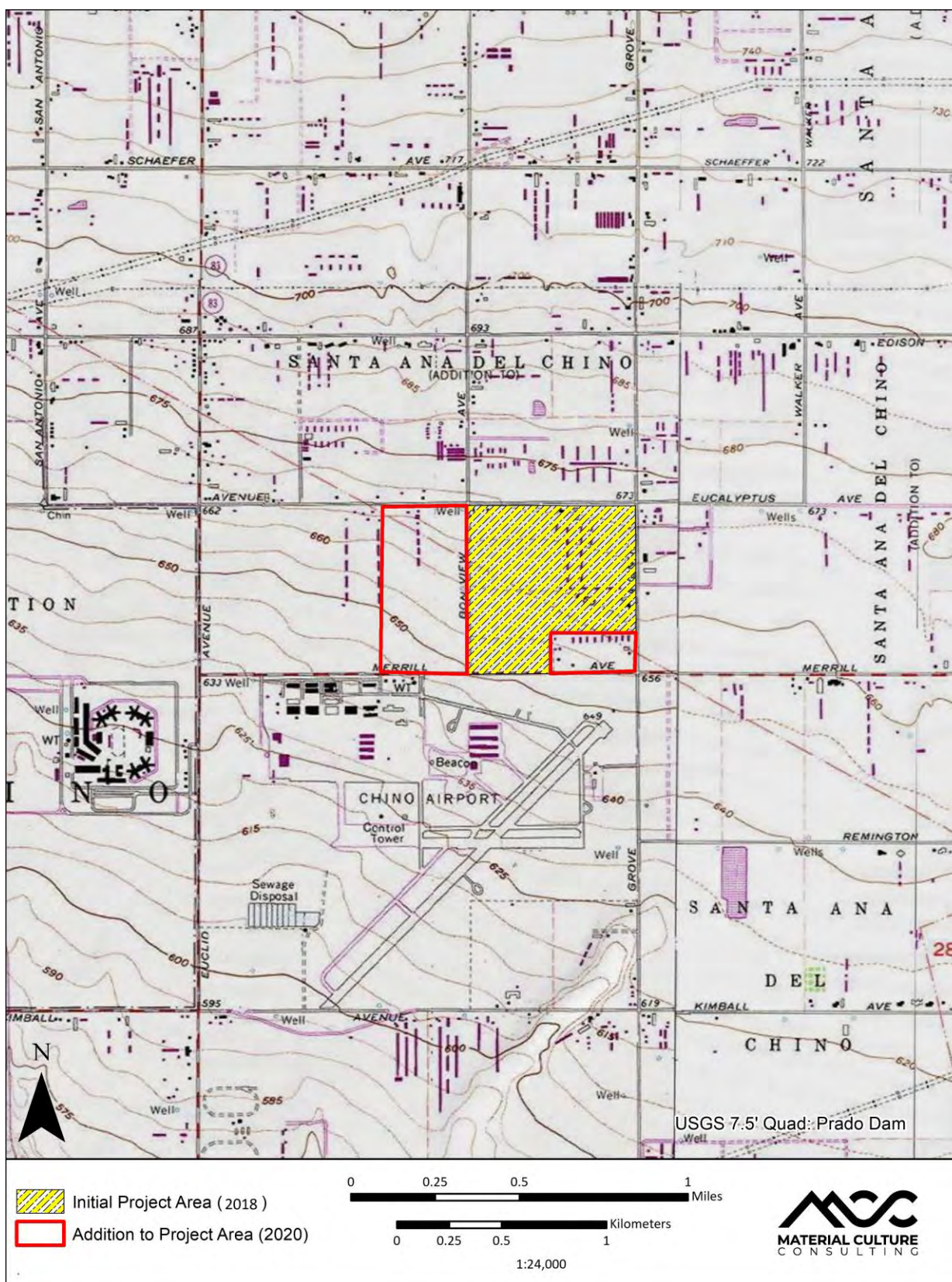


Figure 2. South Ontario Logistics Center Project Area (1:24,000, as depicted on Prado Dam USGS 7.5-Minute Quadrangle)

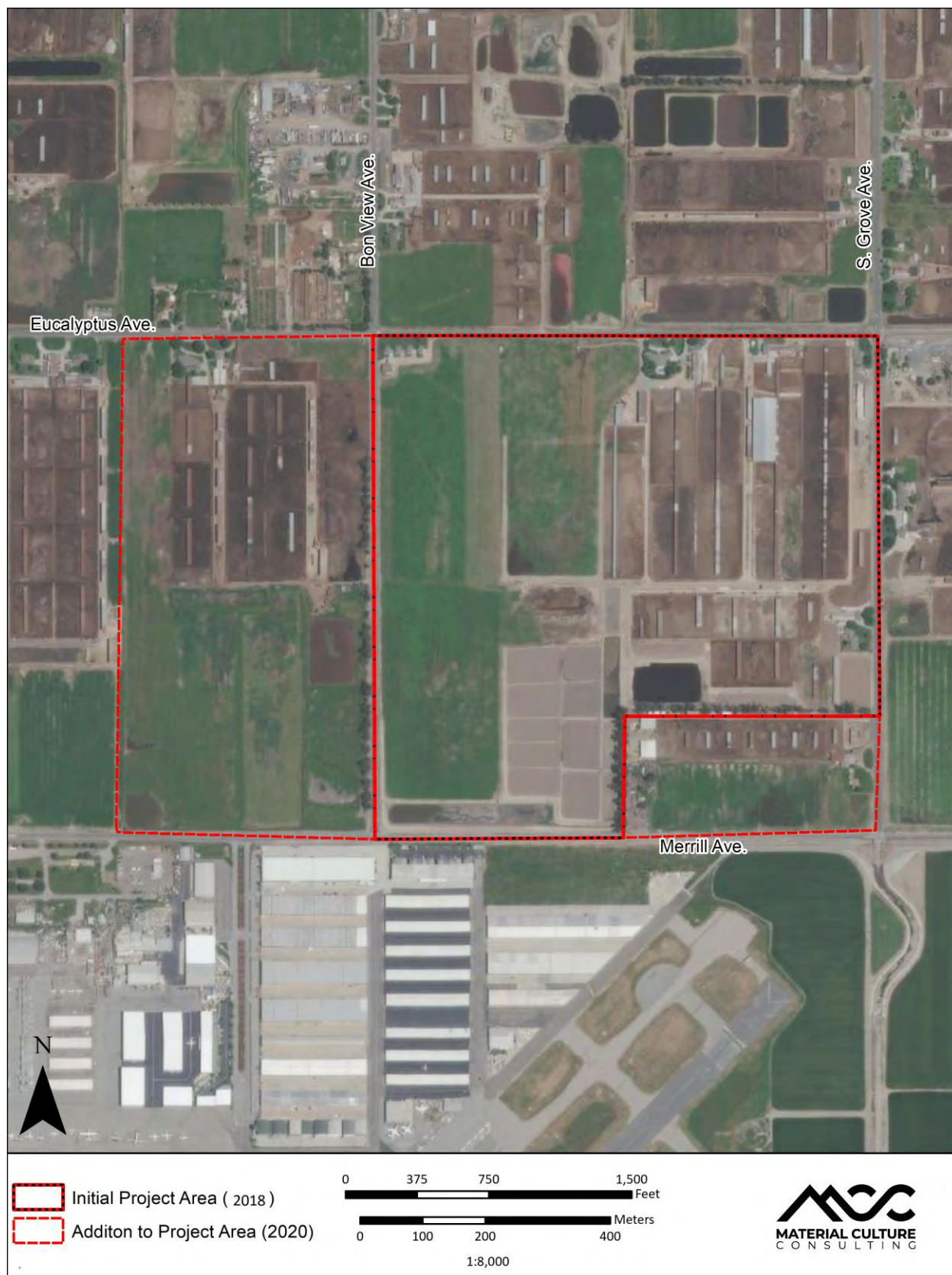


Figure 3. South Ontario Logistics Center Project Area (1:8,000, as depicted on aerial photograph)

## REGULATORY ENVIRONMENT

The current study is subject to local and state laws and regulations regarding cultural and paleontological resources. These regulations require the identification of cultural and paleontological resources within the Specific Plan Area which should be considered during the planning stage of new Projects; include application review for Projects that would potentially involve land disturbance; provide Project-level standard conditions of approval that address unanticipated discoveries; and provide requirements to develop specific mitigation measures if resources are encountered during any development activity. Specific governing legislation and regulations include the following:

### **CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)**

CEQA declares that it is state policy to "take all action necessary to provide the people of this state with...historic environmental qualities." It further states that public or private Projects financed or approved by the state are subject to environmental review by the state. All such Projects, unless entitled to an exemption, may proceed only after this requirement has been satisfied. CEQA requires detailed studies that analyze the environmental impacts of a proposed Project. In the event that a Project is determined to have a potential significant environmental impact, CEQA requires that alternative plans and mitigation measures be considered. CEQA includes historic and archaeological resources as integral features of the environment.

CEQA requires a designated lead agency to determine whether a Project may have a significant impact on historical resources. A historical resource is defined as a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR) (Section 21084.1); a resource included in a local register of historical resources (Section 15064.5(a)(2)); or any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant (Section 15064.5 (a)(3)). Public Resources Code (PRC) Section 5024.1, Section 15064.5 of the Guidelines, and Sections 21083.2 and 21084.1 of the Statutes of CEQA were used as one of the basic guidelines for the current cultural resources study. PRC Section 5024.1 directs evaluation of historical resources to determine their eligibility for listing on the CRHR.

The purpose of the register is to maintain listings of the state's historical resources. The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing on the NRHP, enumerated above, and require similar protection to what NHPA Section 106 mandates for historic properties. According to Public Resources Code (PRC) Section 5024.1(c)(1-4), a resource is considered historically significant if it meets at least one of the following criteria:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States;
2. Associated with the lives of persons important to local, California or national history;
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values; or
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to having significance, resources must retain integrity. Integrity is the authenticity of a historical resource's physical identity as evidenced by the survival of characteristics or historic fabric that existed during the resource's period of significance. Alterations to a resource or changes in its use over time may have historical, cultural, or architectural significance. Simply, resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. A resource that has lost its historic character or appearance may still have sufficient integrity for the California Register, if,

under Criterion 4, it maintains the potential to yield significant scientific or historical information or specific data. Note that California Historical Landmarks with numbers 770 or higher are automatically included in the CRHR.

Under CEQA, if an archeological site is not a significant “historical resource” but meets the definition of a “unique archeological resource” as defined in PRC Section 21083.2, then it should be treated in accordance with the provisions of that section. A unique archaeological resource is defined in PRC Section 21083.2(g) as follows:

An archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Resources that neither meet any of these criteria for listing on the NRHP or CRHR nor qualify as a “unique archaeological resource” under CEQA PRC Section 21083.2 are viewed as not significant. Under CEQA, “A non-unique archaeological resource need be given no further consideration, other than the simple recording of its existence by the lead agency if it so elects” [PRC Section 21083.2(h)].

Impacts to historical resources that alter the characteristics that qualify the historical resource for listing on the CRHR are considered to be a significant impact. Impacts to a historical resource are considered significant if the Project activities physically destroy or damage all or part of a resource; change the character of the use of the resource or physical feature within the setting of the resource which contribute to its significance; or introduce visual, atmospheric, or audible elements that diminish the integrity of significant features of the resource. If it can be demonstrated that a Project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (Section 21083.2 (a), (b), and (c)).

#### **CALIFORNIA HISTORICAL LANDMARKS AND POINTS OF HISTORICAL INTEREST**

Historical landmarks are sites, buildings, features, or events that are of statewide significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value. In order to be considered a California Historical Landmark, the landmark must meet at least one of the following criteria:

- 1) Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States;
- 2) Associated with the lives of persons important to local, California, or national history;
- 3) Embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of a master; or possesses high artistic values;
- 4) Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

If a site is primarily of local or countywide interest, it may meet the criteria for the California Point of Historical Interest Program. Points of Historical Interest are sites, buildings, features, or events that are of local (city or county) significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value. To be eligible for designation as a Point of Historical Interest, a

resource must meet at least one of the following criteria:

1. The first, last, only, or most significant of its type in the local geographic region (city or county);
2. Associated with an individual or group having a profound influence on the history of the local area;
3. A prototype of, or an outstanding example of, a period, style, architectural movement or construction; or
4. One of the more notable works or the best surviving work in the local region of a pioneer architect, designer, or master builder.

Points of Historical Interest designated after December 1997 and recommended by the State Historical Resources Commission are also listed in the California Register. No historical resource may be designated as both a Landmark and a Point of Interest. If a Point of Interest is subsequently granted status as a Landmark, the Point of Interest designation will be retired.

## PALEONTOLOGY

As defined by Society for Vertebrate Paleontology (SVP), paleontological resources means any fossilized remains, traces, or imprints of prehistoric plants and/or animals which are preserved in or on the earth's crust that can provide information about the history of past life on the planet (2009). Generally, any resource greater than 5,000 years old is considered to be a fossil and are considered a nonrenewable resource that are subject to impacts from land development (SVP, 2010). Paleontological resources are important scientific and educational resources because they are used to:

- 1) Document the evolutionary history of now extinct organisms to study any associated evolution patterns and/or speciation;
- 2) Reconstruct the environments, climate change, and/or paleoecological relationships these organism lived in; and
- 3) Determine the relative geologic age of the strata in which the resources occur and any geological events that resulted in the deposition of the sediments that formed the strata.

Fossil resources vary widely in their relative abundance and distribution and not all are regarded as significant. Vertebrate fossils, whether preserved remains or track ways, are classed as significant by most state and federal agencies and professional groups (and are specifically protected under the California Public Resources Code). In some cases, fossils of plants or invertebrate animals are also considered significant and can provide important information about ancient local environments. Assessment of significance is also subject to the California Environmental Quality Act (CEQA) criterion that the resource constitutes a "unique paleontological resource or site." A significant paleontological resource is considered to be of scientific interest if it is a rare or previously unknown species, it is of high quality and well-preserved, it preserves a previously unknown anatomical or other characteristic, provides new information about the history of life on earth, or has an identified educational or recreational value. Paleontological resources that may be considered not to have scientific significance include those that lack provenience or context, lack physical integrity due to decay or natural erosion, or that are overly redundant or are otherwise not useful for research. Vertebrate fossil remains and traces include bone, scales, scutes, skin impressions, burrows, tracks, tail drag marks, vertebrate coprolites (feces), gastroliths (stomach stones), or other physical evidence of past vertebrate life or activities (BLM 2016). The full significance of fossil specimens or fossil assemblages cannot be accurately predicted before they are collected, and in many cases, before they are prepared in the laboratory and compared with previously collected material.

Pre-construction assessment of significance associated with an area or formation must be made based on previous finds, characteristics of the sediments, and other methods that can be used to determine paleoenvironmental conditions. A separate issue is the potential of a given geographic area or geologic unit to preserve fossils. Information that can contribute to assessment of this potential includes:



- 1) The existence of known fossil localities or documented absence of fossils nearby and in the same geologic unit (e.g. "Formation" or one of its subunits);
- 2) Observation of fossils within the Project vicinity;
- 3) The nature of sedimentary deposits in the area of interest, compared with those of similar deposits known elsewhere (size of particles, clasts and sedimentary structures conducive or non-conducive to fossil inclusion) that may favor or disfavor inclusion of fossils; and
- 4) Sedimentology details, and known geologic history, of the sedimentary unit of interest in terms of the environments in which the sediments were deposited, and assessment of the favorability of those environments for the probable preservation of fossils.

As so defined, significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, uncommon, or diagnostically important. Significant fossils can include remains of large to very small aquatic and terrestrial vertebrates or remains of plants and animals previously not represented in certain portions of the stratigraphy. Assemblages of fossils that might aid stratigraphic correlation, particularly those offering data for the interpretation of tectonic events, geomorphologic evolution, and paleoclimatology are also critically important (Scott and Springer 2003; Scott et al. 2004).

#### **SAN BERNARDINO COUNTY DEVELOPMENT CODE**

The San Bernardino County Development Code shall be implemented regarding the mitigation of paleontological resources. The County of San Bernardino's Development Code (§82.12.010-050 regarding Cultural Resources and §82.20.010-040 regarding Paleontological Resources) requires evaluation of potential cultural and paleontological resources as part of its CEQA review of proposed projects. It also defines the requirements for a qualified technical specialist in both disciplines. The County additionally requires a project proposed within the Cultural and Paleontological Resources Overlay to include a report prepared by a qualified professional that determines, through appropriate investigation, the presence or absence of cultural or paleontological resources on the project site and within the project area. The report must also recommend appropriate recovery or protection measures. The Overlay may be applied to areas (determined by records searches at appropriate institutions) where cultural or paleontological resources are known to have been produced or are likely to be present.

#### **CITY OF ONTARIO GENERAL PLAN**

The City of Ontario General Plan Community Design Element contains several policies (CD4-1 through CD4-7) were developed to meet the City's goals regarding management of cultural and paleontological resources. CD4-1 applies to the current study as an effort to update the known information on the project area, as it has not been surveyed or examined in the past ten years:

CD4-1 Cultural Resource Management. Update and maintain an inventory of historic sites and buildings, professional collections, artifacts, manuscripts, photographs, documents, maps, and other archives.

CD4-2 Collaboration with Property Owners and Developers. Educate and collaborate with property owners and developers to implement strategies and best practices that preserve the character of our historic buildings, streetscapes, and neighborhoods.

CD4-3 Collaboration with Outside Agencies. Pursue opportunities to team with other agencies, local organizations, and nonprofits in order to preserve and promote Ontario's heritage.

CD4-4 Incentives. Use the Mills Act and other federal, state, regional, and local programs to assist property owners with the preservation of select properties and structures.

CD4-5 Adaptive Reuse. Actively promote and support the adaptive reuse of historic sites and buildings to preserve and maintain their viability.

CD4-6 Promotion of Public Involvement in Preservation. Engage in programs to publicize and promote the City's and the public's involvement in preservation efforts.

CD4-7 Public Outreach. Provide opportunities for our residents to research and learn about the history of Ontario through the Planning Department, Museum of History and Art, Ontario, and the Robert E. Ellingwood Model Colony History Room.

In 2003, the City of Ontario was designated by the State of California Office of Historic Preservation as a Certified Local Government (CLG). This program was created to encourage the preservation of historic resources through the city's municipal code, Article 26 Historic Preservation Ordinance. The ordinance is designed for those property owners who wish to have their property designated as a Historic Landmark or a Contributor to a Historic District. Any historical resource may be designated a Historical Landmark by the City Council if:

1. It meets the criteria for listing in the National Register Historic Places; or
2. It meets the criteria for listing in the California Register of Historic Resources; or
3. It meets one or more of the following criteria:
  - A. It exemplifies or reflects special elements of the City's history;
  - B. It is identified with persons or events significant in local, state, or national history;
  - C. It is representative of the work of a notable builder, designer, architect, or artist;
  - D. It embodies distinguishing architectural characteristics of a style, type, period or method of construction;
  - E. It is noteworthy example of the use of indigenous materials or craftsmanship;
  - F. It embodies elements that represent a significant structural, engineering, or architectural achievement or innovation;
  - G. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community of the City; or
  - H. It is one of the few remaining examples in the City, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

## BACKGROUND

### ENVIRONMENTAL SETTING

The Project Area is located 5.2 miles south of the downtown area of the City of Ontario, bounded by Eucalyptus Avenue to the north, by dairy farm to the west, by Merrill Avenue to the south, South Grove Avenue to the east, and bisected by Bon View Avenue. North of the Project is a mixture of dairy/agricultural and service commercial properties, and Chino Airport located to the south. The city of Ontario is located in southwest San Bernardino County in southern California and lies within the northern extent of the Santa Ana Valley, a sub-portion of the larger San Bernardino Valley. The subject site is located within the Chino Basin. The Prado Basin is situated within the upper Santa Ana Valley of the Peninsular Ranges Geomorphic Province (Norris and Webb 1976). The city of Ontario lies within the broad alluvial fan originating from the southern flank of the San Gabriel Mountains, and dips gradually southward to the confluence of San Antonio Channel, Cucamonga Channel/Mill Creek, and the Santa Ana River at the Prado Dam Flood Control Basin in Riverside County. The Santa Ana River flows to the south of the City and Cucamonga Creek and Deer Creek traverse north to south through the City. The Project Area is flat with elevation averaging approximately 202 meters (m) (662 ft) above mean sea level (AMSL). The entire project area has been disturbed by the development of Dairy Farms, currently located within the Project's boundary. Currently, vegetation within the Project Area is characterized as primarily agricultural and commercial landscaping with no native vegetation observed.

### PALEONTOLOGICAL SETTING

The Project Area is situated in the San Bernardino Basin, adjacent to the Transverse Ranges Geomorphic Province. This province is comprised of a series of mountain ranges that run transverse to most mountain ranges in southern California – roughly east/west trending. The mountains within the province, including the San Gabriel and San Bernardino mountains to the north and northeast, were uplifted by tectonic activity, and provide a major sedimentary source for the alluvium basins of the adjacent areas (Critelli et al. 1995). The geologic units underlying this project are mapped entirely as younger Quaternary alluvium (Qyfa) dating from the late Holocene to Pleistocene (Jennings et al. 1977) (Figure 4). These deposits derived broadly as alluvial fan deposits from the San Bernardino Mountains to the north (McLeod 2018).

*Young Quaternary alluvium (Qyfa)* are Holocene to late Pleistocene-aged alluvial fan deposit that typically consists of river and stream derived sediments. The sediments are comprised of slightly consolidated gray-hued arkosic, sandy and gravel -sand deposits derived from local Peninsular Ranges batholith granitic bodies (Morton 2003).

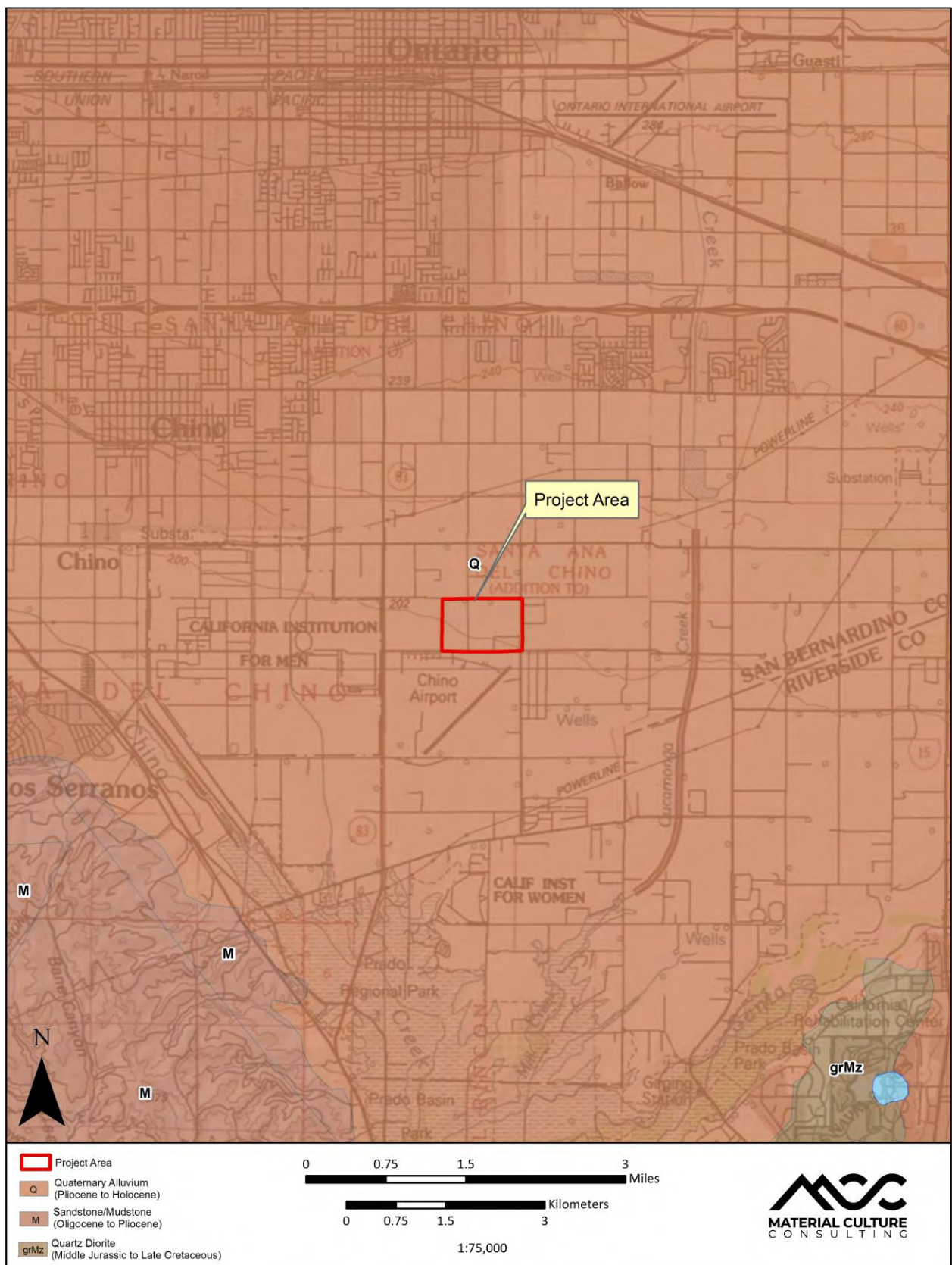


Figure 4. Geological Map of Project Area (1:75,000; compiled by USGS in open source PDF format)

## PREHISTORIC CONTEXT

Most researchers agree that the earliest occupation for the Ontario area dates to the early Holocene (11,000 to 8,000 years ago). The following discussion of the cultural history of San Bernardino County references the San Dieguito Complex, the Milling Stone Horizon, the Encinitas Tradition, the La Jolla Complex, the Pauma Complex, and the San Luis Rey Complex, since these culture sequences have been used to describe archaeological manifestations in the region. The Late Prehistoric component in the area of San Bernardino County was represented by the Cahuilla, Gabrielino, and Luiseño Indians. Absolute chronological information, where possible, will be incorporated into this discussion to examine the effectiveness of continuing to use these terms interchangeably.

### *The Paleo Indian Period*

The Paleo Indian Period is associated with the terminus of the late Pleistocene (12,000 to 10,000 YBP). The environment during the late Pleistocene was cool and moist, which allowed for glaciation in the mountains and the formation of deep, pluvial lakes in the deserts and basin lands (Moratto 1984). However, by the terminus of the late Pleistocene, the climate became warmer, which caused glaciers to melt, sea levels to rise, greater coastal erosion, large lakes to recede and evaporate, extinction of Pleistocene megafauna, and major vegetation changes (Moratto 1984; Martin 1967, 1973; Fagan 1991). Paleo Indians were likely attracted to multiple habitat types, including mountains, marshlands, estuaries, and lakeshores. These people likely subsisted using a more generalized hunting, gathering, and collecting adaptation, utilizing a variety of resources including birds, mollusks, and both large and small mammals (Erlandson and Colten 1991; Moratto 1984; Moss and Erlandson 1995). The earliest sites known in the area are attributed to the San Dieguito culture, which consists of a hunting culture with flaked stone tool industry (Warren 1967). The material culture related to this time included scrapers, hammer stones, large flaked cores, drills, and choppers, which were used to process food and raw material.

### *Milling Stone Period*

Around 8,000 years ago, subsistence patterns changed, resulting in a material complex consisting of an abundance of milling stones (for grinding food items) with a decrease in the number of chipped stone tools. The material culture from this time period includes large, bifacially worked dart points and grinding stones, handstones and metates. Archaeologists initially designated this period as the "Millingstone Horizon" (Wallace 1955). Later, the Millingstone Horizon was redefined as a cultural tradition named the Encinitas Tradition (Warren 1967) with various regional expressions including Topanga and La Jolla. Use by archaeologists varied as some adopted a generalized Encinitas Tradition without regional variations, while others continued to use Millingstone Horizon, and still others used Middle Holocene (the geologic time period) to indicate this observed pattern (Sutton and Gardner 2010:1-2). Recently, this generalized terminology was criticized by Sutton and Gardner (2010) as suppressing the identification of cultural, spatial, and temporal variation, as well as the movement of peoples throughout space and time. It is these factors that are believed to be critical to an understanding of prehistoric cultural adaptation and change in this portion of southern California (Sutton and Gardner 2010:1-2).

The Encinitas Tradition characteristics include abundant metates and manos, crudely-made core and flake tools, bone tools, shell ornaments, very few projectile points, indicating a subsistence pattern focused on hunting and gathering a variety of floral resources. Faunal remains vary by location but include marine mammals, fish, and shellfish, as well as terrestrial animals, reptiles, and birds (Sutton and Gardner 2010:7). The Encinitas Tradition has been redefined to have four patterns (Sutton and Gardner 2010: 8-25). These include the Topanga Pattern in coastal Los Angeles and Orange counties, the La Jolla Pattern in coastal San Diego County, and the Sayles or Pauma cultures in inland San Diego County extending into western San Bernardino County, where the project is located. At approximately 3,500 years ago, Pauma groups in the general Project vicinity adopted new cultural traits which transformed the archaeological site characteristics - including mortar and pestle technology. This indicated the development of food storage, largely acorns, which could be processed and saved for the leaner, cooler months of the year.

### *Late Prehistoric Period*

At approximately 1,500 years before present, bow and arrow technology started to emerge in the archaeological record, which also indicates new settlement patterns and subsistence systems. The local population retained the subsistence methods of the past, but incorporated new materials into their day to day existence, as evidenced by the archaeological record. The Palomar Tradition is attributed to this time, and is comprised of larger two patterns: the Peninsular Pattern in the inland areas of the northern Peninsular Ranges (e.g., San Jacinto and Santa Rosa mountains) and the northern Coachella Valley (Sutton 2010), and the San Luis Rey pattern of the project area. Archaeological sites from this time period are characterized by soapstone bowls, arrowhead projectile points, pottery vessels, rock paintings, and evidence of cremation sites. The shift in material culture assemblages is largely attributed to the emergence of Shoshonean (Takic-speaking) people who entered California from the east.

### **ETHNOGRAPHY**

The territory of the Gabrielino at the time of Spanish contact covered much of current-day Los Angeles and Orange Counties and extended into the western part of San Bernardino County. The southern extent of this culture area is bounded by Aliso Creek, the eastern extent is located east of present-day San Bernardino along the Santa Ana River, the northern extent includes the San Fernando Valley, and the western extent includes portions of the Santa Monica Mountains. The Gabrielino also occupied several Channel Islands including Santa Barbara Island, Santa Catalina Island, San Nicholas Island, and San Clemente Island. Because of their access to certain resources, including a steatite source from Santa Catalina Island, this group was among the wealthiest and most populous aboriginal groups in all of southern California. Trade of materials and resources controlled by the Gabrielino extended as far north as the San Joaquin Valley, as far east as the Colorado River, and as far south as Baja California (Johnson 1962; Kroeber 1976; Bean and Smith 1978).

The Gabrielino lived in permanent villages and smaller, resource-gathering camps occupied at various times of the year depending upon the seasonality of the resource. Larger villages were comprised of several families or clans, while smaller, seasonal camps typically housed smaller family units. The coastal area between San Pedro and Topanga Canyon was the location of primary subsistence villages, while secondary sites were located near inland sage stands, oak groves, and pine forests. Permanent villages were located along rivers and streams, as well as in sheltered areas along the coast. As previously mentioned, the Channel Islands were also the locations of relatively large settlements (Kroeber 1976; Bean and Smith 1978).

The Gabrielino tribe carried out food exploitation strategies that utilized local resources ranging from plants to animals; coastal resources were also exploited. Rabbit and deer were hunted and acorns, buckwheat, chia, berries, fruits and many other plants were collected. Artifacts associated with their occupations include a wide array of chipped stone tools including knives and projectile points, wooden tools like digging sticks and bows, and ground stone tools like bedrock and portable mortars, metates and pestles. Local vegetation was used to construct shelters as well as for medicinal purposes. Cooked foods were prepared on hearths (Kroeber 1976; Bean and Smith 1978; McCawley 1996). Acorns were one of the most important food resources utilized by the Gabrielino and other Native American groups across California. The acorns were ground into a fine powder in order to make an acorn mush or gruel. A dietary staple, acorns provided a large number of calories and nutrients. The ability to store and create stockpiles in case of lean times also contributed to the importance of acorns as a vital natural resource. Much of the material evidence available to archaeologists concerning the Gabrielino is a result of tools and technologies related to their subsistence activities.

The social structure of the Gabrielino is little known; however, there appears to have been at least three social classes: 1) the elite, which included the rich, chiefs, and their immediate family; 2) a middle class, which included people of relatively high economic status or long established lineages; and 3) a class of people that included most other individuals in the society. Villages were politically autonomous units comprised of several lineages. During

times of the year when certain seasonal resources were available, the village would divide into lineage groups and move out to exploit them, returning to the village between forays (Kroeber 1976; Bean and Smith 1978). Each lineage had its own leader, with the village chief coming from the dominant lineage. Several villages might be allied under a paramount chief. Chiefly positions were of an ascribed status, most often passed to the eldest son. Chiefly duties included providing village cohesion, leading warfare and peace negotiations with other groups, collecting tribute from the village(s) under his jurisdiction, and arbitrating disputes within the village(s). The status of the chief was legitimized by his safekeeping of the sacred bundle, a representation of the link between the material and spiritual realms and the embodiment of power (Kroeber 1976; Bean and Smith 1978). Shamans were leaders in the spirit realm. The duties of the shaman included conducting healing and curing ceremonies, guarding of the sacred bundle, locating lost items, identifying and collecting poisons for arrows, and making rain (Kroeber 1976; Bean and Smith 1978). Marriages were made between individuals of equal social status and, in the case of powerful lineages, marriages were arranged to establish political ties between the lineages (Kroeber 1976; Bean and Smith 1978). Men conducted the majority of the heavy labor, hunting, fishing, and trading with other groups. Women's duties included gathering and preparing plant and animal resources, and making baskets, pots, and clothing (Kroeber 1976; Bean and Smith 1978). The name "Gabrielino" is Spanish in origin and was used in reference to the Native Americans associated with the Mission San Gabriel. It is unknown what these people called themselves before the Spanish arrived, but today they call themselves "Tongva", meaning "people of the earth".

## **HISTORICAL SETTING**

The "Sacred Expedition" of 1769, led by Spaniard Gaspar de Portola and Franciscan Fray (or Father) Junipero Serra, started the process of colonization in Alta California was meant to begin the permanent settlement of Alta California, beginning in San Diego. Once the first European exploration of California occurred, the region underwent immense change. As early as 1827, Anglo-Americans were migrating into Southern California. In the decades to come, California would be taken by the United States with the close of the Mexican-American War and subsequent events such as the Civil War and California Gold Rush would continue to shape the history of California.

### *Spanish Period (1769 to 1821) to Mexican Period (1821 to 1848)*

The Spanish period began in 1769 with Captain Gaspar de Portolá's land expedition and ended in 1821 with Mexican Independence. During the Spanish Period, the establishment of the Mission San Gabriel Arcángel (1771) was influential throughout the surrounding regions, using the area for cattle grazing. An asistencia was established within the area nearby in Redlands in 1819 and helped facilitate the Mission's control of the surrounding area. However, after control of the area shifted to Mexico, secularization began throughout the area and the missions and their associated ranches began to decline. The Mexican government proceeded to push settlements of Mexican populations from the south by deeding large grants to individuals who promised to employ settlers. One such land grant was the *Rancho Santa Ana del Chino*.

In 1841, Antonio Maria Lugo was granted the rights to what became *Rancho Santa Ana del Chino*. After building an adobe house (now currently the location of Boy's Republic in Chino Hills), Lugo turned over the management of the ranch to his son-in-law, Isaac Williams. For decades, Williams successfully grazed cattle on the 46,000 acres Rancho. Notably, Williams played a significant part of the Battle of Chino, a local skirmish during the Mexican-American War. On September 26 and 27, 1846, the Mexican army sent an advancing contingency to intercept 24 American sympathizers, led by Benjamin D. Wilson, on their way to Los Angeles (Beattie 1942; Martino et al. 2011; Lech 2014). The adobe house at *Rancho Santa Ana del Chino*, where the sympathizers had been hiding, was set ablaze as a result of multiple attacks. The American group surrendered and, instead of execution, the group was taken to Los Angeles where they remained prisoners of war until they were eventually released (Beattie 1942; Lech 2014).

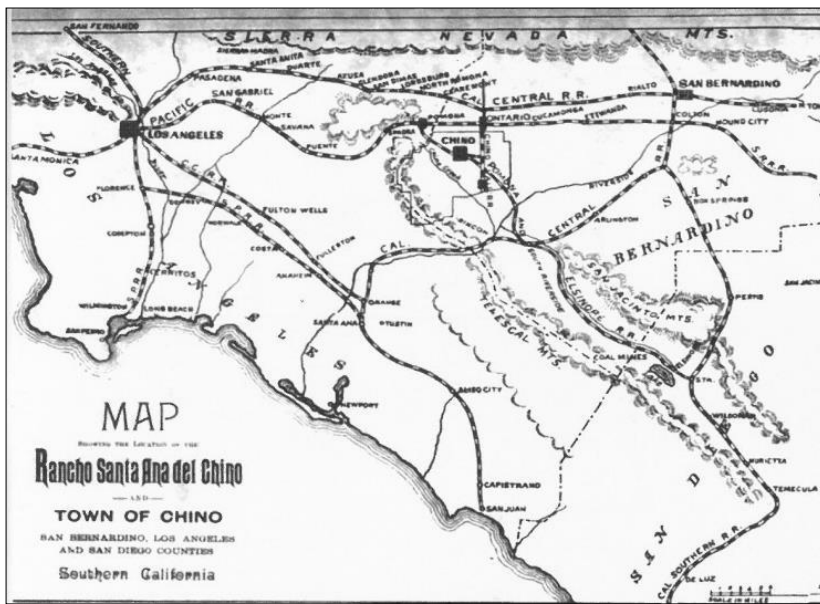


Figure 5. Map of Rancho Santa Ana del Chino (Martino et al. 2011)

#### *American Period (1848 to present)*

The Gold Rush of 1849 would see tremendous influx of Americans and Europeans flooding into Southern California. *Rancho Santa Ana del Chino* became a popular stopover for travelers of the rush (Martino et al. 2011). The passing of the Homestead Act of 1862 continued this increase of settlers within the region, George and William Chaffey were among these early pioneers. In 1881, the Chaffey brothers believed that if the land was properly irrigated, it could be converted to profitable agriculture property. They bought over 6,000 acres of land in 1882 that was arid and covered by patches of scrub brush (City of Ontario 2018a). The Chaffey brothers designed a water system that connected miles of cement pipe from an underground water source to each parcel of land. This land would eventually become the cities of Ontario and Upland. George and William Chaffey derived the name of the city from their native province of Ontario in Canada (Galvin Preservation Associates 2007). The City of Ontario was incorporated in 1891, becoming one of the earliest established towns in San Bernardino County (City of Ontario 2018a and b). By 1903, the city was referred to as a “Model Irrigation Colony” after receiving an award at the World Fair as a “Model Colony” for innovation in water rights and technology, which assisted in attracting settlers to the City (City of Ontario 2018a). Charles Frankish, an early citizen of Ontario, guided and encouraged early development in the city by successfully attracting the Southern Pacific Railway to locate a depot in the center of town on Euclid Avenue, making it an important feature of the City. The establishment of the Southern Pacific Railroad depot transformed Ontario into an agricultural center. Ontario focused primarily on the citrus industry, but also grew walnuts, peaches, and grapes. There was a large gentry class of citrus growers who constructed many grand ornamental Victorian houses throughout the city (City of Ontario 2018b).





**Figure 6.** Citrus grove in North Ontario area, circa 1905 (Galvin Preservation Associates 2007)

Dairies began to be established in the region, known as Chino Valley, during the late 1890s and continued to dominate the area throughout the 20<sup>th</sup> century. During the 1920s and 1930s, middle European dairymen began settling in the area (Galvin and Associates 2004). In 1967, the County of San Bernardino designated 14,000 acres of land in Chino Valley as an agricultural preserve protected by the Williamson Act and the Land Conservation Act. By the 1980s, the area had more cows per acre and higher milk yields than anywhere else in the world (Galvin and Associates 2004). By the 1990s, increased demand for housing and high dairy operation costs pressured farmers in the San Bernardino Agricultural Preserve to consider relocating their dairies and annexing their land to adjoining cities. Anticipating the expiration of the Williamson Act, the area was divided, and portions were incorporated into the Cities of Ontario, Chino, and Chino Hills. The City of Ontario annexed 8,200 acres of the former San Bernardino Agriculture Preserve in 1999 and called the area the New Model Colony. The Local Agency Formation Commission (LAFCO) required the City to prepare a General Plan Amendment and EIR prior to annexation. In 1996, the City of Ontario began planning for annexation and adopted the New Model Colony General Plan Amendment and EIR in 1998 (Galvin and Associates 2004). Today, the City of Ontario retains its history through many recognizable historic neighborhoods, buildings, and agricultural districts.

## METHODS

### **CALIFORNIA HISTORIC RESOURCES INVENTORY SYSTEM AND CULTURAL BACKGROUND RESEARCH**

On September 18, 2018, Judy Cardoza, conducted a search of the California Historical Resource Information System (CHRIS) at the South Central Coast Information Center (SCCIC), located at the California State University, Fullerton, Orange County. On January 29, 2020, Julia Carvajal, conducted a supplemental search at SCCIC for the amended Project Area. The search covered any previously recorded cultural resources and investigations within a 1 mile radius of the Project Area. The CHRIS search also included a review of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Inventory of Historic Resources.

### **NATIVE AMERICAN OUTREACH AND BACKGROUND RESEARCH**

MCC requested a search of the Sacred Lands File from the Native American Heritage Commission (NAHC) on October 2, 2018. The Commission responded with a letter dated October 10, 2018, although this response was not logged in with MCC until October 31, 2018, stating that there are no known sacred lands within a 1- mile radius of the Project Area. The NAHC requested that nine Native American tribes or individuals be contacted for further information regarding the general Project vicinity. MCC has extensive experience conducting archaeological investigations within the region of the Project Area and has established working relationships with local Native American representatives. As a result, informational letters were mailed on October 24, 2018, to each group or individual anticipated to be an interested party in advance of the NAHC response, in order to expedite a streamlined Native American contact program. Maps depicting the Project APE were attached to each letter. On November 2, 2018, any individuals that was not covered by MCC's initial outreach was mailed out the same informational letters and map. Overall, a total of 22 parties were contacted, nine of which were identified by the NAHC as potential contacts and 13 additional Native American representatives, to solicit comments regarding the Project. Additional attempts at contact by letter, email, or phone call were made on November 12 and November 27, 2018. On January 30, 2020, MCC sent informational letters and maps of the expanded Project Area to the nine Native American Tribes and/or individuals identified by the NAHC as contacts to have knowledge of cultural resources in the Project Area. MCC did not conduct formal consultation with the Native American representatives.

### **PALEONTOLOGICAL RECORDS SEARCH**

The literature review included an examination of geologic maps of the project area and a review of relevant geological and paleontological literature to determine which geologic units are present within the project area and whether fossils have been recovered from those geologic units elsewhere in the region. As geologic units may extend over large geographic areas and contain similar lithologies and fossils, the literature review includes areas well beyond the project area. The results of this literature review include an overview of the geology of the project areas and a discussion of the paleontological sensitivity (or potential) of the geologic units within the project area. A search for paleontological records was completed by staff of the Natural History Museum of Los Angeles County (LACM) in Los Angeles on October 12, 2018. The record search included a one-mile radius around the Project Area, as well as the Project Area itself identified any vertebrate localities in the museum's records that exist near the project area in the same or similar deposits.

### **CULTURAL AND PALEONTOLOGICAL FIELD SURVEY**

The survey stage is important in a Project's environmental assessment phase to verify the exact location of each identified cultural or paleontological resource, the condition or integrity of the resource, and the proximity of the resource to areas of cultural resources sensitivity. In addition, the field survey provides invaluable information on the type of sediment present within the Project Area, which informs the assessment of paleontological sensitivity. Judy Cardoza, MCC Archaeologist and cross-trained Paleontologist, conducted the survey of the proposed Project Area on September 21, 2018. The survey consisted of walking in parallel transects spaced at approximately 15-

meter intervals over the Project parcel, while closely inspecting the ground surface. All undeveloped ground surface areas within the ground disturbance portion of the Project Area were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools or fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions and features indicative of the former presence of structures or buildings (e.g., postholes, foundations), or historic-era debris (e.g., metal, glass, ceramics). Existing ground disturbances (e.g. cutbanks, ditches, animal burrows, etc.) were visually inspected. Representative photographs were taken of the entire Project Area.

## RESULTS

### CALIFORNIA HISTORIC RESOURCES INVENTORY SYSTEM AND CULTURAL BACKGROUND RESEARCH

The CHRIS records search identified a total of 19 cultural resources investigation that have been previously conducted within a 1-mile mile radius buffer around the Project Area, with two studies adjacent to the Project Area (see Table 1).

**Table 1.** Previous Conducted Resources Studies within 1 -mile Buffer of Project Area

CHRIS Report Number	Authors	Year	Title of Study	Affiliation	Distance from Project Area
SB-00395	Hearn, Joseph E., and Ruth D. Simpson	1976	Archaeological-Historical Resources Assessment of Proposed Chino Maintenance Yard Construction	San Bernardino County Museum Association	Within 1 mile
SB-00695	Unknown	Unknown	Unknown	Unknown	Within 1 mile
SB-00537	Hearn, Joseph E.	1977	Archaeological-Historical Resources Assessment of Land Area to be Impacted by Renovation Program at Chino Airport	San Bernardino County Museum Association	Adjacent to Project Area
SB-00547	Hearn, Joseph E.	1977	Archaeological-Historical Resources Assessment of Kimball Road Improvement Project in Chino	San Bernardino County Museum Association	Adjacent to Project Area
SB-01499	Foster, John M. and Roberta S. Greenwood	1985	Cultural Resources Overview: California Portion, Proposed Pacific Texas Pipeline Project	Greenwood and Associates	Adjacent to Project Area
SB-02623	Taskiran, A. and R. Greeley	1992	Cultural Resources Assessment: Santa Ana Watershed Project Authority, Chino Basin Desalination Program-Phase I Project, Riverside and San Bernardino Counties, California	University of California Riverside, Archaeological Research Unit	Within 1 mile
SB-02678	Broomhall, Lorie L.	1992	Addendum to Cultural Resources Assessment: Santa Ana Watershed Project Authority, Chino Basin Desalination Program – Phase I Project, Riverside and San Bernardino Counties, California	Univ. of Calif. Riverside, Archaeological Research Unit	Within 1 mile
SB-03012	Owen, Shelley	1995	Cultural Resources Survey and Impact Assessment for the Cajon/EPTC Pipeline Project Located in Portions of Los Angeles, San Bernardino, and Orange Counties, CA	EIP Associates	Within 1 mile
SB-03066	Rosenthal, Jane and Beth Padon	1995	Historic Property Clearance Report for Euclid Ave. (RTE 83) Road Widening Between Kimball & Merrill Avenues in the City of Chino—08-RIV-83 PM 2.73/3.920	Petra Resources, Inc	Within 1 mile
SB-03686	Hale, Alice M.	1997	Cultural Resource Assessment-Santa Ana Watershed Project Authority, Chino Basin Desalination Program: Water Pipelines, Wells & Reservoir	Greenwood and Associates	Within 1 mile
SB-3687	Love, Bruce and B. Tang	1997	Identification & Evaluation of Historic Properties-Chino Basin Desalination Program, Facilities Revision Project, San Bernardino & Riverside Counties	CRM Tech	Within 1 mile
SB-04402	Billat, Lorna	2004	Chino Airport/CA-6115D/ 14PP	Earth Touch, LLC	Within 1 mile

<b>CHRIS Report Number</b>	<b>Authors</b>	<b>Year</b>	<b>Title of Study</b>	<b>Affiliation</b>	<b>Distance from Project Area</b>
SB-04404	Tanaguchi, Christeen	2003	Phase I Cultural Resources Survey for Cingular Telecommunications Facility SB-197-03 (Edison Verizon Colo) 14095 N. Euclid Ave., Ontario, San Bernardino County, CA. 9PP	Michael Brandman Associates	Within 1 mile
SB-04506	Dahdul, Miriam	2001	Historical/Archaeological Resources Survey Report: Chino I Desalter Expansion & Chino II Desalter & Support Facilities, Chino Basin Area, San Bernardino & Riverside Counties. 16PP	CRM Tech	Within 1 mile
SB-06037	Crawford, Kathleen A.	2008	Direct APE Architectural Assessment for Royal Street Communications, LLC. California Candidate LA2245B (SCE Chino, Chino Mira Loma No. 1 M231-T3n), Fern Avenue and Edison Avenue, Chino San Bernardino County CA	Michael Brandman Associates	Within 1 mile
SB-06068	Cotterman, Cary and Chandler, Evelyn	2009	Cultural Resources Inventory of Proposed Edison International Aircraft Operations Facility at the Chino Airport Chino, San Bernardino County, California	ECORP Consulting	Within 1 mile
Sb-07898	Strudwick, Ivan	2013	Results of the Cultural Resources Assessment Survey for the Stratham Company 14-Acre Brewart SiteProject in the City of Chino, San Bernardino County California	LSA Associates, Inc.	Within 1 mile
SB-07968	Holm, Lisa and John Holson	2011	Supplemental Archaeological Survey Report: Tehachapi Renewable Transmission Project Segment 8 East (Phase 2 and 3) and West (Phase 4), Los Angeles and San Bernardino Counties, California	Pacific Legacy, Inc	Within 1 mile
SB-07977	Panich, Lee, Tsim D. Schneider, and John Holson	2010	Supplemental Archaeological Survey Report: Tehachapi Renewable Transmission Project Segment 8 East (Phase 2 and 3), San Bernardino County, California	Pacific Legacy, Inc	Within 1 mile

The records search identified nine previously recorded cultural resources within a 1-mile buffer, with no resources located within the Project Area boundaries (see Table 2). A review of historical aerial photographs and maps show the Project Area has been consistently used for agricultural and dairy activities since the 1930s (see Table 3 and Confidential Appendix B).

**Table 2.** Previously Recorded Cultural Resources within 1-mile Buffer of Project Area

Primary Number	Trinomial	Age	Attributes	NRHP/CRHR	Distance from Project Area
P-872-83H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-84H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-85H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-86H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-87H	N/A	Historic	HP6-Commercial Building	unknown	Within 1 mile
P-872-88H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-36-024903	N/A	Historic	HP11-Engineering structure	unknown	Within 1 mile
P-36-025440	N/A	Historic	HP11-Engineering structure	unknown	Within 1 mile
P-36-026725	N/A	Historic	HP33-Farm/Ranch	unknown	Within 1 mile

**Table 3.** Additional Sources Consulted for the Project

Source	Results
National Register of Historic Places (1979-2002 & supplements)	Negative
Historical United States Geological Survey topographic maps (USGS 2012)	Area consistently used for agricultural activities
Historical United States Department of Agriculture aerial photos	Area consistently used for agricultural activities
California Register of Historical Resources (1992-2010)	Negative
California Inventory of Historic Resources (1976-2010)	Negative
California Historical Landmarks (1995 & supplements to 2010)	Negative
California Points of Historical Interest (1992 to 2010)	Negative
Local Historical Register Listings	Negative
Bureau of Land Management General Land Office Records (BLM GO 2008)	Negative

**NATIVE AMERICAN OUTREACH AND BACKGROUND RESEARCH**

As a result of the effort to contact the 22 Native American Tribes or individuals identified by the NAHC and established working relationships with other Native American representatives, MCC received seven responses. These responses came in the form of emails and a phone call. Below is a summary of the responses provided by Native American Tribes.

MCC received several responses prior to our first follow-up attempt. On November 1, 2018, MCC received an email from Jessica Mauck, Cultural Resources Analyst for San Manuel Band of Mission Indians (SMBMI). Ms. Mauck stated the proposed Project Area is located just outside of Serrano ancestral territory and SMBMI would not request consulting party status or elect to participate with further development of the Project. On November 2, 2018, MCC received an email containing a letter from Travis Armstrong, Tribal Historic Preservation Officer for

Morongo Band of Mission Indians (MBMI). Mr. Armstrong stated the Project is located within the MBMI's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. MBMI requested a through records search be conducted via CHRIS and a copy of the search results be provided to the tribe. MBMI also requested a tribal monitor participate during the initial pedestrian field survey of the Phase I Study of the Project with copy of results of the study provided. Mr. Armstrong stated that if the pedestrian survey has already been conducted, MBMI would request a copy of the Phase I study be provided to the Tribe as soon as it is made available. On November 7, 2018, MCC received an email from Lacy Padilla, Archaeological Technician for Agua Caliente Band of Cahuilla Indians (ACBCI), who were a part of MCC's preliminary outreach effort. Ms. Padilla stated the proposed Project is not located within ACBCI's Traditional Use Area and they defer to other tribes in the area.

MCC conducted a follow-up to the nine NAHC-provided Native American contacts on November 12, 2018. In response, Brandy Salas, admin specialist for Gabrieleno Band of Mission Indians- Kizh Nation (Kizh Nation), requested a digital copy of the outreach letter be sent to the Tribe. MCC provided a digital copy to Ms. Salas on November 14, 2018. On November 16, 2018, Ms. Salas responded that the Kizh Nation request that if any ground disturbance should take place regarding the Project that their tribal government would like to consult with the agency. On November 16, 2018, MCC received an email from Sarah Bliss, Cultural Resources Manager for Twenty-Nine Palms Band of Mission Indians (TNPBMI), who were apart of MCC's preliminary outreach effort. Ms. Bliss stated that TNPBMI was unaware of any additional cultural resources or any Tribal Cultural Resources within the Project area. TNPBMI requested any updates or changes to the Project be brought to their attention. On November 28, 2018 MCC received a return call from Mr. Anthony Morales, chairperson of the Gabrieleno / Tongva San Gabriel Band of Mission Indians. Mr. Morales indicated that the Project area is historically known to have had Gabrieleno villages in the general vicinity, that the area would have been used as a trade route to the Inland Empire, and that there may even be traces of water conveyance features intact. Mr. Morales also requested that the Gabrieleno / Tongva San Gabriel Band of Mission Indians be contacted in the event that any ground disturbing activity takes place within the Project area, as they would like to be involved in the monitoring process.

As a result of notifying Native American Tribes or individuals identified by the NAHC about changes to the Project Area, MCC received one response from Alexandra McCleary, Tribal Archaeologist for the San Manuel Band of Mission Indians (SMBMI). Dr. McCleary stated that the proposed Project are is located outside of ancestral territory and as such does not have any comments at this time.

As of March 4,2020, MCC has not received any additional responses from the remaining NAHC-listed groups or individuals we contacted for information. Should MCC receive additional responses once the final report is submitted, the information will be passed on to Euclid Land Ventures to be added to the report as an addendum. NAHC and Native American correspondence materials, including our communication attempts, are provided as Appendix C.

#### **PALEONTOLOGICAL RECORDS SEARCH**

The locality search at LACM did not yield any fossil localities within 1 mile of the Project Area and no fossil localities within the Project Area (See Appendix D) (McLeod 2018). The geological units mapped within the entirety of the Project Area is comprised of younger Quaternary alluvium (McLeod 2018). While these deposits typically do not contain significant vertebrate fossils within the uppermost layers, it is likely they are underlain in this area by older Quaternary deposits at relatively shallow depth. The closest vertebrate fossil locality from similar sediments is LACM 7811, which is located just south of due east of the Project Area, and west of Mira Loma, California. This locality produced a fossil specimen of whipsnake (*Masticophis*) at a depth of nine to eleven ft below surface (McLeod 2018). The next closest vertebrate fossil locality from Older Quaternary deposits is LACM 1207, located south-southeast of the Project Area on the northwestern side of Corona, California. This locality produced fossil

specimen of deer (*Odocoileus*) (McLeod 2018). Additional literature was consulted, including The University of California Museum of Paleontology (UCMP)'s Miocene Mammal Mapping Project (MioMap), with no fossil localities within the area of the Project (Carrasco et al. 2005).

### **CULTURAL AND PALEONTOLOGICAL FIELD SURVEY RESULTS**

The majority of the Project Area is comprised of facilities supporting ongoing agricultural and dairy activities. Historic structures, in addition to modern residences and buildings associated with the dairy farm, are located throughout the Project Area, and were surveyed and assessed by Pamela Daly, MSHP (see Appendix E). The entire Project Area has been previously disturbed with the current agricultural/dairy operations within its boundaries. Retaining ponds are located within the southeast portion of the project area.

On September 21, 2018. MCC archaeologist and cross-trained paleontologist Judy Cardoza, conducted an intensive pedestrian survey of the project area. Visibility throughout the project area during the archaeological and paleontological survey ranged from 10% to 80%, vegetation consists of dry seasonal grasses. Soil throughout the area is a light brown, disturbed by agricultural and dairy activities. Representative photos of the project area are found below (Figures 7-12). A survey for the supplemental assessment acreage was not surveyed due to the area only being programmatically analyzed at this time. If development is to occur at a later date, then an intensive pedestrian survey must be completed prior to work.

The Specific Plan area is occupied by the George Borba & Son Dairy, which appears to have established their organization at this location in 1963 (per information from San Bernardino County building permits). George A. Borba Sr. was the son of Pete Borba, who had moved to the Chino Valley-Edison Road area in the late 1920s, to grow potatoes and be a dairy operator. George Borba Sr. established in dairy operation in 1963 at 7955 Eucalyptus Avenue, and built a large modern milking operation and a private residence. He expanded his operation in 1978 with the construction of an additional dairy barn, and built a residence for his farm manager. Borba's neighbor to the southeast, Harry Boersma, sold his dairy operation to Borba in 1993. When Borba moved onto the land in 1963, there had been three single-family bungalows and a large, metal sided utility barn located at the southeast corner of Eucalyptus Avenue and Bon View Avenue. The three bungalows were removed in 1988, and replaced with four, single-family residences that same year. The Specific Plan area includes the Borba main house, the manager's house, the Boersma house, the Borba main dairy barn/milking parlor, the Borba auxiliary dairy barn/milking parlor, the Boersma dairy barn/milking parlor, four single-family residences, an older barn, and structures associated with a dairy farm operation. The buildings and structures of the George Borba & Son Dairy property are all situated within the Specific Plan area. The George Borba & Son Dairy property has met the aspects of physical integrity, and character-defining features, to be identified as a Post 1950s Scientific, Large Capacity Dairy, but does not appear to have played a significant role in the history of dairy farming, or appear to be an important example of a large-scale, concentrated animal dairy operation in Ontario, or the Chino Valley area.





**Figure 7.** Overview of western portion of Project Area (View Southwest)



**Figure 8.** Overview of eastern portion of Project Area (View Southeast)



**Figure 9.** Overview of active dairy located within Northeastern portion of the Project Area (View southwest)



**Figure 10.** Representative photo of field sections within northwest corner (View South)



**Figure 11.** Representative photo of basins at the southwest corner of the project area (View West)



**Figure 12.** Representative photos of historic buildings (View Northeast)

## CONCLUSIONS AND RECOMMENDATIONS

### CULTURAL RESOURCES CONCLUSIONS

The Phase I cultural resource assessment of the Project Area included a CHRIS records search, NAHC outreach, background research, a field pedestrian survey, and a historic resource survey and evaluation. The records search results indicated no previously recorded resource within the Project Area. During the field survey, several historic structures were observed in the project area, which were assessed for significance by a qualified architectural historian, Pamela Daly, MSHP. The historic-era dairy is not considered significant as per CEQA or NHPA Section 106, and therefore does not require additional mitigation or management.

### CULTURAL RESOURCES RECOMMENDATIONS

Based on the results of the cultural resources search and survey, the proposed Project Area is considered to have a low sensitivity for presence of significant prehistoric or historical archaeological deposits or features. MCC recommends **No Mitigation is Needed**. However, this recommendation is based on the condition of no development taking place within the supplemental assessment area. Future development in the expansion area will require an intensive pedestrian survey prior to any development. If the expansion area yields a positive survey, mitigation measures will need to be reassessed and archaeological monitoring maybe required. While we do not recommend additional mitigation at this time, MCC does recommend setting a plan in place to expediently address inadvertent discoveries and human remains (as described below), should these be encountered during construction activities.

#### *Inadvertent Discoveries*

Despite actions taken to ensure that all cultural resources are located prior to construction, including record searches and field surveying, there still remains the possibility that undiscovered, buried archaeological resources might be encountered during construction. In the event that these resources are inadvertently discovered during ground-disturbing activities, work must be halted within 50 feet of the find until it can be evaluated by a qualified archaeologist. Construction activities could continue in other areas. If the discovery proves to be significant, additional work, such as data recovery excavation or fossil recovery, may be warranted and would be discussed in consultation with the appropriate regulatory agency(ies).

#### *Human Remains*

Procedures of conduct following the discovery of human remains on non-federal lands have been mandated by California Health and Safety Code §7050.5, PRC §5097.98 and the California Code of Regulations (CCR) §15064.5(e). According to the provisions in CEQA, should human remains be encountered, all work in the immediate vicinity of the burial must cease, and any necessary steps to insure the integrity of the immediate area must be taken. The Riverside County Coroner will be immediately notified. The Coroner must then determine whether the remains are Native American. If the Coroner determines the remains are Native American, the Coroner has 24 hours to notify the NAHC, who will, in turn, notify the person they identify as the most likely descendent (MLD) of any human remains. Further actions will be determined, in part, by the desires of the MLD. The MLD has 48 hours to make recommendations regarding the disposition of the remains following notification from the NAHC of the discovery. If the MLD does not make recommendations within 48 hours, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the MLD's recommendations, the owner or the descendent may request mediation by the NAHC.

## **PALEONTOLOGICAL RESOURCES CONCLUSIONS**

The Phase I paleontological resource assessment of the Project Area included a locality records search, literature review, and a field pedestrian survey. No significant paleontological resources were identified within the direct Project Area during the locality search or the field survey. The Project show the geological units mapped within the Project Area is comprised of younger Quaternary Alluvium, derived from San Bernardino Mountains to the north. While these deposits typically do not contain significant vertebrate fossils within the uppermost layers, it is likely there are underlying sediments of older Quaternary deposits. There are nearby localities from similar sedimentary deposits found within the proposed Project Area. MCC recommends the Project Area be considered low to moderate sensitivity to have the potential for construction activities of the proposed project to impact underlying paleontological resources.

## **PALEONTOLOGICAL RESOURCES RECOMMENDATIONS**

Based on the above findings, MCC recommends periodic paleontological spot checks should be conducted when excavation exceeds depths of five feet to determine if older, paleontologically sensitive sediments are present. If present, monitoring should be implemented. Prior to the start of construction, a paleontological resources monitoring plan (PRMP) should be prepared and implemented. It is recommended the Project's PRMP implement the following procedures:

- A trained and qualified paleontological monitor should perform spot-check and/or monitoring of any excavations on the Project that have the potential to impact paleontological resources in undisturbed native sediments below 5 feet in depth. The monitor will have the ability to redirect construction activities to ensure avoidance of adverse impacts to paleontological resources.
- The Project paleontologist may re-evaluate the necessity for paleontological monitoring after examination of the affected sediments during excavation, with approval from Lead Agency and Client representatives.
- Any potentially significant fossils observed shall be collected and recorded in conjunction with best management practices and SVP professional standards.
- Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.
- A report documenting the results of the monitoring, including any salvage activities and the significance of any fossils, will be prepared and submitted to the appropriate personnel.

This recommendation is based on the condition of no development taking place within the supplemental assessment area. Future development in the expansion area will require an intensive pedestrian survey prior to any development. If the expansion area yields a positive survey, mitigation measures will need to be reassessed.

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Scott, E. and K. Springer

Appendix A:  
Staff  
Qualifications



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Tria Belcourt oversees and is responsible for the entire work process at Material Culture Consulting. She is responsible for planning, supervising, and overseeing field projects, including responsibility for the professional quality of evaluations and recommendations. Tria has primary accountability for the technical completeness and competence of work conducted by her staff. She is responsible for development of work plans and/or research designs, for performance of crew chiefs, for selection standards and limitations on work assignments of crew members, for analysis and interpretation of field data, for integration of fieldwork results into comparative regional perspectives, and for preparation of reports. Tria's advanced academic training and more than twelve years of professional archaeological experience has included rigorous training and application of anthropological and archaeological theory and methods, and in recording, collecting, handling, analyzing, evaluating, and reporting cultural property data, relative to the type and scope of work proposed.

Tria has been an archaeological project manager and principal investigator for over six years, leading and managing several complex compliance projects throughout the State of California and in Southern Nevada, which have involved each step of cultural resource compliance and management. Prior to this, she spent six years as a field technician and crew chief on projects throughout California and the Southeastern United States. Her experience includes conducting background research, field survey, resource testing and formal NRHP/CRHR evaluation, data recovery plan development and implementation. She has prepared hundreds of technical reports for all of the above to state and federal standards, including following BLM standards for GIS spatial data management and technical reporting – ranging from simple clearance forms, to letter reports, to extensive data recovery reports. She was the lead preparer of the Fort Irwin Integrated Cultural Resource Management Plan (2009-2013) and has also prepared several cultural resource management plans for state regulated projects. She has overseen and conducted archaeological monitoring and management of unanticipated discovery of resources, including Native American human remains on federal lands (and repatriation of the remains), and reported the results and outcomes of cultural resource monitoring efforts in lengthy technical reports. Finally, Tria regularly provides third party and QA/QC review of cultural resource technical documents, due to her keen understanding of state and federal regulations and laws governing the management of cultural resources throughout the state of California.

#### EDUCATION

2014	Graduate Certificate in Environmental Management of Military Lands, Colorado State University
2010	Professional Certification in CEQA/NEPA, ICF International Corporation
2009	M.A. in Anthropology, University of Florida Gainesville, Florida Professional Certification in GIS
2006	B.A. in Anthropology, Magna Cum Laude, University of California, Los Angeles, California

#### AFFILIATIONS/CERTIFICATIONS/TRAINING

- Society for Historical Archaeology (SHA)
- Society for California Archaeology (SCA)

#### UTILITY SECTOR EXPERIENCE

***SCE Transmission Line Rating and Remediation Project (TLRR) – Control Silver Peak 66kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present).*** Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and Environmental Intelligence (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

***SCE Transmission Line Rating and Remediation Project (TLRR) - Kern River 66kV, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present).*** Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

***SCE Transmission Line Rating and Remediation Project (TLRR) – Eldorado Pisgah Lugo 220kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present).*** Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

***SCE Transmission Line Rating and Remediation Project (TLRR) – Control Haiwee 115kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (April 2017- present).*** Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and to SWCA (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

***SCE Transmission Line Rating and Remediation Project (TLRR) – Ivanpah Coolwater Kramer Inyokern 115kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (April 2017- present).*** Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and to SWCA (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

***Pacific Gas and Electric Company (PG&E), NERC Alert Program – Archaeological Principal Investigator; throughout California; 2015 – Present.*** Belcourt provides oversight of all task orders and project management of on-call task orders involving cultural resource desktop reviews, records searches and field reviews for the PG&E NERC Alert program: tracking and reporting efforts, maintaining project schedule, and timely submittal of data to prime contractor (Arcadis).

***Southern California Edison (SCE), On-Call and Emergency Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2013 – Present.*** Belcourt has provided oversight of over 200 task orders for on-call and emergency projects to date, involving cultural resource desktop reviews, records searches and field reviews for deteriorated poles, system upgrades, initial studies to support capital projects, and monitoring support to replace facilities due to natural disasters. This high-volume program includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedules, and preparing technical reports and GIS datasets for submittal to prime contractor (SWCA).

***Southern California Edison (SCE), Large Capital Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2014 – Present.*** Belcourt has provided oversight of over 20 task orders for major projects to date, involving cultural resources for this contract with SWCA, Environmental Intelligence and ICF. This includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedule, and preparing technical reports and GIS datasets for submittal to prime contractors.

***Southern California Edison (SCE), Small Capital Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2014 – Present.*** Belcourt provides oversight of all task orders and project management of task orders involving cultural resources for this contract with Environmental Intelligence and ICF. This includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedule, and preparing technical reports and GIS datasets for submittal to prime contractors.

***Southern California Edison (SCE), Coolwater Lugo Transmission Project — Environmental Project Manager; San Bernardino County, California; 2014 – 2015.*** Belcourt provided oversight of all project management on CWLTP: tracking and reporting efforts of subconsultants (Pacific Legacy, Paleo Solutions and Urbana Preservation and Planning), maintaining project schedule and timely submittal of project deliverables to agency reviewers. Served as communication facilitator between SCE and BLM/CPUC agency reviewers. Provided final review of the Cultural Resources Technical Report (which included over 1,000 cultural resources) and the Historic Built Environment Report - prior to draft submittal to BLM.

***SCE, Eldorado Ivanpah Transmission Project – In-house Consultant for Archaeology; San Bernardino County, California and Clark County, Nevada; 2010-2012.*** Belcourt provided complex regulatory oversight and project management regarding cultural and paleontological resource management. She developed compliance training to inform and guide construction activities and major capital project teams. She also developed and implemented internal cultural resource management programs based on project mitigation measures. Tria coordinated with BLM archaeologists on discovery and management of previously unknown cultural resources identified during construction. She provided environmental analyses, technical reports, and clearance documentation for over 20 project modifications during construction without delay to project. Developed the cultural resources geodatabase for EITP and coordinated regularly with the project GIS team.

***Silver State South Substation, In-house Consultant for Archaeology; Southern California Edison, Clark County, NV; 2010-2012.*** Provided regulatory oversight and project management regarding cultural and paleontological resource management during project licensing and scoping. Identified potential impacts to cultural and paleontological resources, developing appropriate mitigation measures in preparation for and projecting alternative conclusions.

***Tehachapi Renewable Transmission Project, Multiple Roles; Southern California Edison, Segments 1-3 and Segments 6-11, Kern, Los Angeles and Orange County, CA; 2009 - Present.*** Tria provided service to this project over seven years in multiple roles – archaeological field monitor, project coordinator, in-house consultant at SCE, and principal investigator. She provided regulatory oversight and project management regarding cultural and paleontological resource management for all segments of TRTP. Developed and implemented internal cultural resource management programs based on the mitigation measures in the Final Environmental Impact Report/Environmental Impact Statement (FEIR/EIS) for TRTP, and for the existing Special Use Permits and Record of Decision for TRTP, issued by the Angeles National Forest (ANF). Oversaw preparation of the Historic Properties Treatment Plans, fieldwork and technical report preparation for two large-scale Phase III Data Recovery excavations on Angeles National Forest. Coordinated with ANF archaeologists on discovery and management of previously unknown cultural resources identified during construction. Provided cultural resources analyses and clearance documentation, including technical reports, for over 100 project modifications during construction without delay to project. Finally, Tria was responsible for maintaining the geospatial data for the project within the SCE cultural resources geodatabase TRTP and coordinated with the project GIS team.

***Desert Tortoise Habitat Conservation Plan Area, Principal Investigator; Cadiz Inc., San Bernardino County, CA; 2013.*** Oversaw records search to identify the extent of previous cultural resources surveys and all previously recorded prehistoric and historic resources within the 7,500-acre Desert Tortoise Habitat Conservation Plan (HCP) area (Project Area) located on lands administered by the BLM Needles Field Office in unincorporated San Bernardino County, California.

## **SOLAR SECTOR EXPERIENCE**

***Ecoplexus California Correctional Institution Solar Project, Tehachapi, Kern County, California. Cultural and Paleontological Assessments (April 2018 – present).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus Ironwood State Prison and Chuckawalla Valley State Prison Solar Project, City of Blythe, Riverside County. Cultural and Paleontological Assessments (June 2018 – present).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus California State Prison Centinela Solar Project, City of Imperial, Imperial County, California. Cultural and Paleontological Assessments (August 2017 – April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus Calipatria State Prison Solar Project, City of Calipatria, Imperial County, California. Cultural and Paleontological Assessments (August 2017 – April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus RJ Donovan State Prison Solar Project, San Diego, San Diego County, California. Cultural and Paleontological Assessments (March 2018 – April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus Salinas Valley State Prison Solar Project, City of Soledad, Monterey County, California. Cultural and Paleontological Assessments (March 2018 – April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Ecoplexus Correctional Training Facility Soledad Project, City of Soledad, Monterey County, California. Cultural and Paleontological Assessments (March 2018 – April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***SDG&E Cameron Substation Photovoltaic Project, San Diego, San Diego County, California. Cultural and Paleontological Assessments (September 2017 – present).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, facilitated Native American consultation between County of San Diego and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Beard Solar Project, Dustin Acres, Kern County, California. Cultural and Paleontological Assessments (March 2018- April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Broadman Solar Project, Livermore, Alameda County, California. Cultural and Paleontological Assessments (February 2018- March 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Nachtigall Solar Project, Wasco, Kern County, California. Cultural and Paleontological Assessments (March 2018-April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Rocha Solar Project, Fuller Acres, Kern County, California. Cultural and Paleontological Assessments (March 2018-April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Shafter Solar Project, City of Shafter, Kern County, California. Cultural and Paleontological Assessments (March 2018-present).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Anderson Twisselman Solar Project, Lost Hills, Kern County, California. Cultural and Paleontological Assessments (March 2018-April 2018).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

***Forefront Power Weedpatch Solar Project, Kern County, California. Cultural and Paleontological Assessments (March 2018-present).*** Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Jennifer Kelly, M.Sc.  
Senior Paleontologist and Principal Investigator



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Jennifer Kelly has experience in all aspects of paleontology. She has extensive experience with monitoring, salvage, fieldwork, project management, and report writing, as well as volunteer experience from the La Brea Tar Pits/Page Museum and the Cooper Center of Orange County (Paleontology department) and field experience as a Staff Geologist for Leighton Geotechnical. Her expertise is Geology, and she has her M.S. in Geological Sciences, emphasis in Geochemistry.

Jennifer has taught lab courses in paleontology and general geology, and also assisted with field mapping classes. Jennifer is HAZWOPER 40-hour certified and a registered Orange County paleontologist. She has co-authored more than 60 paleontological compliance documents, including PRMPs, EIR, EIS, PEA, final monitoring reports, survey reports, and other compliance documents, in compliance with NEPA, CEQA, Caltrans and city and county laws, ordinances, regulations, and statutes.

## Education

- 2012 M.Sc. in Geology, California State University, Long Beach, California
- 2005 B.S., Geology (preliminary work for entry to M.S. Geology Program), California State University, Long Beach
- 2004 B.A., Theater Arts, California State University, Long Beach

## Certifications and Training

- 40 Hour Certification for HAZWOPER training under 29 CFR 1910.120, CA (2013 – 2014)
- Orange County Certified Paleontologist
- San Diego County Certified Paleontologist

## Utility Sector Experience

**Assistant PM/Research Specialist, Tehachapi Renewable Transmission Project (TRTP), Southern California Edison (SCE), Kern County, Los Angeles County, San Bernardino County.** Kelly conducted and led surveys along this project's right of way. She additionally was in charge of scheduling monitoring crews during grading in areas of paleontological sensitivity, managing and reviewing log sheets, and tracking data that is incorporated to final reports. Ms. Kelly played a valuable role with scheduling for the project's needs. She has monitored, surveyed, and reported on all paleontological facets of this project as the Lead Paleontological Monitor for segment 3B and 4-11. She has co-authored more than 10 of the compliance reports for this project. She has also performed monitoring on every segment of this Project.

**Assistant PM/Research Specialist, SCE, Valley South Subtransmission Line Project, Riverside County, California.** Kelly assisted with scheduling and oversight for coordination of all surveying, preparation of compliance and environmental documentation for this project, including three proposed alternatives,

and co-wrote the final PEA and survey reports, utilizing CEQA and Riverside County paleontological guidelines.

**Assistant PM/Research Specialist, SCE, San Joaquin Cross Valley Loop Project, Tulare County, California.** Kelly assisted with coordination of all surveying, preparation of compliance and environmental documentation for this project, and co-authored the final Paleontological Monitoring Plan for this project.

**Assistant PM/Research Specialist, SCE, Devore Substation Project, San Bernardino County, California.** Kelly assisted with preparation of compliance and environmental documentation including a paleontological inventory and geological map research for this project.

**Assistant PM/Research Specialist, SCE, Horsetown Substation Project, Riverside County, California.** Kelly assisted with preparation of compliance and environmental documentation including a paleontological inventory and geological map research for this project.

**Paleontological Field Technician, El Casco System-Transmission Line, SCE, throughout Riverside County.** Kelly performed paleontological monitoring. Her duties included salvaging small and large fossils, screen washing and sorting fossils. She aided in the processing of microfossils collected from bulk sampling of fossil bearing sediment, and documenting stratigraphic locations of fossil bearing units. This project was in compliance with both CEQA and the CPUC.

**Assistant PM/Research Specialist, South of Kramer Project, SCE, Hesperia to Barstow, San Bernardino, County.** Kelly assisted in overseeing portions of project management and compliance surveying, which included surveying from Hesperia to Barstow, CA for a Proponent's Environmental Assessment (PEA). All portions of the Proposed Project were located within San Bernardino County, California. This project is still active and survey results are being finalized. Kelly co-authored the final survey report for this Project. A BLM Permit was authorized for the survey.

**Assistant PM/Research Specialist, OC Access Road Grading, SCE, Orange and Riverside County.** Kelly assisted in documentation for the cultural resources portion, which include information regarding the location and condition of archaeological and paleontological sites recorded at or near the access roads, and recommends impact avoidance measures for future years in implementing the Protocol for 73 known archaeological sites. This required extensive coordination with Orange County Fire Authority grading department, SCE's Operations and Maintenance (O&M), and Orange County Parks. Trimble units were used for the documentation before and after grading of access roads. Communication played a key role when strategizing which locations were being graded where and when. The company came in under budget because of Kelly's efficiency and ability to coordinate and schedule.

**Assistant PM/Research Specialist, West of Devers Transmission Line Project, SCE, Riverside County, California.** Kelly assisted with all project management and paleontological related services. This included proper BLM authorization and permitting to conduct surveying and a research design for field reconnaissance related to PEA, EIS/EIR documentation for the proposed transmission line. She assisted with managing documentation with laws relating to paleontological resources, among which are CEQA and NEPA compliance.

**Assistant PM/Research Specialist, Grid Reliability and Maintenance for Seawolf, Thresher, and Argonaut 12 kV Distribution Lines, SCE, City of Temecula, Riverside County, California.** Kelly assisted with preparation of compliance and environmental documentation including co-authoring the final paleontological report for this project in Riverside County. This report was prepared under CEQA and Riverside County guidelines.

**Assistant PM/Research Specialist, Pacific Gas and Electric (PG&E), Line 300A/MP 147.7 and 180.8 Projects, San Bernardino County, California.** Kelly assisted in the preparation of mitigation recommendations and a paleontological inventory report for this project. She also assisted with and scheduled planned surveys on BLM and United States Marine Corps lands.

**Assistant PM/Research Specialist, PG&E, Jefferson to Stanford No. 2 60 kV Feasibility Project, San Mateo County, California.** Kelly assisted with the preparation of the paleontological resources review and paleontological inventory report (PIR) and Proponent's Environmental Assessment (PEA) for this project. Several potential routes were assessed for this project, and the feasibility and paleontological potential was determined for this project. The report and PIR were prepared according to CEQA guidelines.

**Assistant PM/Research Specialist, PG&E, Line 107/131 Projects, Alameda County, California.** Kelly assisted with preparation of mitigation recommendations and a paleontological inventory report for this project. She also assisted with and scheduled planned surveys of proposed pipeline locations.

**Assistant PM/Research Specialist, Laguna Niguel Reliability Project, SDG&E, Laguna Niguel, Orange County.** Kelly performed initial research for this Project and co-authored the final report on the monitoring efforts for this project in the Capistrano Formation.

**Assistant PM/Research Specialist, Camp Pendleton Project, SDG&E, throughout San Diego and Orange Counties.** Kelly provided on-call paleontological services for this project. She was a key facet in report production and research which enabled her firm to perform all survey and monitoring work required on Camp Pendleton for CEQA/NEPA check list assessments requested from SDG&E. Kelly was cleared from the Department of Defense in order to conduct work on the base. Site assessments and monitoring include all work related to: future location of power poles and towers, water control features, trenching and subsurface excavations, access roads, grading impacts to develop substations and other facilities, work pads, staging yards, and gas pipelines.

**Assistant PM/Research Specialist, SDG&E Wind Interconnection Project (WIP), San Diego County, California.** Kelly co-authored the paleontological mitigation portion of the Environmental Impact Report (EIR) for this project, utilizing both San Diego County and CEQA guidelines for paleontological resources.

**Assistant PM/Research Specialist, LADWP-Scattergood Project, County of Los Angeles.** Kelly provided on-call paleontological support for this project. She assisted with all project aspects associated to paleontology. She co-authored a paleontological mitigation monitoring plan and assisted in scheduling the monitoring the Scattergood Olympic Line 1 Project, completed the final mitigation document for trench exploration, and performed extensive monitoring for the project.

## Transportation Sector Experience

**Assistant PM/Research Specialist, Paleontological Mitigation Plans (PMP) for Caltrans Cherry/Citrus Ave I-10 interchange Project — PCR/Caltrans, San Bernardino, California.** Kelly conducted all aspects of surveying, and literature searches for both projects.

## Water Sector Experience

**Assistant PM/Research Specialist, Cadiz Ground Water Project, ESA, San Bernardino County, California.** Kelly conducted all research and data collection for the Cadiz Groundwater Conservation and

Storage Project for completion of a DEIR section on paleontological resources. The project included the pipeline corridor but not the Well Field Area and Spreading Basins. Based on the results of the analysis, mitigation measures were developed and are designed to reduce potential adverse impacts to paleontological resources as a result of proposed Project construction to a less than significant level. Only one Project alternative was analyzed for impacts on paleontological resources. The paleontological analysis for the Cadiz Project is a requirement of the California Environmental Quality Act (CEQA).

## Private Development Sector Experience

***Assistant PM/Research Specialist, Holy Sepulchre Cemetery Expansion Project, Diocese of Orange, Santa Ana, Orange County, California.*** Kelly assisted with scheduling monitoring for this project, performed all project-related research, and was the co-author for the final report. The project consisted of grading and leveling several new areas for expansion of the Holy Sepulchre Cemetery, including portions that lie in paleontologically sensitive rock formations with the potential to produce fossils.

***Assistant PM/Research Specialist, UC Irvine Alumni Center Project, Irvine, Orange County, California.*** Kelly performed all monitoring scheduling and coordination duties, as well as research and writing for the final report and the initial monitoring guidelines. This project was a high-visibility construction project for a new alumni center on the grounds of UC Irvine, in a paleontologically sensitive area.

***Assistant PM/Research Specialist, Peters Canyon County Park Restrooms Project, Orange County, California.*** Kelly performed all paleontological monitoring scheduling and coordination duties, as well as research and writing for the final paleontological resources letter report. This project involved the leveling of a pad and significant trenching through paleontologically sensitive soils in order to install a new restroom at the northern end of this park.

***Assistant PM/Research Specialist, UHS Temecula Medical Center, Tuner Construction, Temecula, Riverside County, California.*** Kelly was in charge of day to day scheduling, conducted occasional monitoring duties and part of the writing process for the final report.

## Renewable Energy Sector Experience

***Assistant PM/Research Specialist, Ocotillo Wind Express Project, ASPEN, Imperial County, California.*** Kelly was responsible for managing and collecting all field forms and data that was electronically mailed daily, and incorporating these forms in the final DEIR/EIS Report. She conducted all technical research and compiled both geological and compliance documentation into the final report that was then incorporated into the EIR/EIS.

***Assistant PM/Research Specialist, Manzana Wind Express Project, Kern County, California.*** Kelly assisted in writing the Paleontological Mitigation Monitoring Resource Plan, which allowed her to develop a key role in presenting environmental training programs to construction workers and other environmental compliance monitors. She co-authored the final paleontological monitoring report. The Project's construction consisted of the installation of 107 to 300 wind energy turbines, aligned along approximately 26 rows, on the 6,275-acre proposed site. The Manzana Wind Energy Project site was found to have the potential for scientifically significant paleontological resources that could be impacted by construction-related ground disturbance. She co-authored the final paleontological mitigation report in compliance with CEQA and Kern County guidelines.

***Assistant PM/Research Specialist, Pacific Wind Express Project, Kern County, California.*** Kelly assisted



in writing the Paleontological Mitigation Monitoring Resource Plan, which allowed her to develop a key role in presenting environmental training programs to construction workers and other environmental compliance monitors. She co-authored the final paleontological mitigation report.

## PAMELA DALY

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### Education

- Master of Science - Historic Preservation - University of Vermont, Burlington, Vermont. 1998  
Awarded Graduate Teaching Fellowship in Historic Preservation.
- Bachelor of Science - Business Administration - Elmira College, Elmira, New York. 1994

### Experience and Skills

#### Historic Preservation

##### • Federal Level Projects

- Section 106 – 404 Permit – Historic Context for Phase I Ballona Creek Wetlands Restoration, Culver City, CA
- Section 106 – 404 Permit – Historic Resource Evaluation for Lake Street Improvements, Lake Elsinore, CA
- Section 106 - 404 Permit – Historic Resource Evaluation for Foothill Parkway Extension Project, Corona, CA
- Section 106 – NEPA Historic Resource Evaluation of Green Beach Trestle, San Onofre, CA
- Section 106 – NHPA Historic Resource Evaluation of Brea Tracks Project, Brea, CA
- Section 106 – NEPA Historic Resource Evaluation of Upper Arroyo Seco Canyon, Pasadena, CA
- Section 106 – NEPA Historic Resource Evaluation of Big Santa Anita Wash, Angeles National Forest, CA.
- Section 106 – NEPA Historic Resource Evaluation of a segment of the California Aqueduct, Kings County, CA.
- Section 106 – Federal Highway Administration – Historic Resources Evaluation, Mitigation, and Treatment Plan for the Westside Subway Extension, Metropolitan Transportation Agency, Los Angeles, CA. Survey and evaluation of buildings, bridges, landscapes dating from 1910 to 1975 in an eight-mile long corridor.
- Section 106 – U.S. Housing and Urban Development – San Bernardino Housing Agency – Historic Resource Evaluation of Waterman Housing Development, San Bernardino County, CA. Survey and evaluation of a public housing development dating from 1943.
- Section 106 – Claremont Police Communication Tower, Los Angeles County, CA. Perform evaluation for siting of a communications cell tower.
- Section 106 – U.S. Forest Service, San Bernardino National Forest. Developed building plans for the construction of a new recreational cabin to be constructed in a historic cabin tract. Plans reviewed and accepted by California SHPO.
- Section 106 – Cobb Reservoir, Angeles National Forest, Altadena, CA. Perform a Historic Resource Survey and Eligibility Investigation of a privately owned reservoir constructed in 1910.
- Section 106 – Keyes Mine and Walker Cabin, Sequoia National Forest, Keyesville, CA. Perform a Historic Resource Survey and Eligibility Investigation for structures related to the early mining days of California. The project also included the preparation of detailed drawings and structural evaluations of the stamp mill building and Walker barn.
- Section 106 – Bitter Creek National Wildlife Refuge, Maricopa, CA. Perform a Historic Resource Survey and Eligibility Investigation for the Hudson Family Homestead Ranch Historic District for eligibility to the National Register. The project also included the preparation of detailed drawings and structural evaluations of the building known as “Percy’s Place”.
- Section 106 – Ivanpah Valley, Eastern Mojave Desert, CA. Perform a Historic Resource Survey and Eligibility Investigation for two historic roads and a railroad line for eligibility to the National Register.
- Section 106 – Army Corp of Engineers, 404 Permit Historic Resource Assessment Report of the East Garden Grove Wintersburg Channel, part of the Orange County Flood Control System, Bolsa Chica, CA.
- Section 106 – Evaluate impact of proposed removal and storage of National Register-eligible object at Camp Parks Army Reserve Base, Dublin, CA.
- Section 106 – Naval Air Station, North Island, San Diego, California. Historic Resources Survey and Eligibility Investigation of thirteen historic airplane hangars for eligibility to the National Register.
- Section 106 - Edwards Air Force Base, California – Report of findings on 37 Historic Wells and Homesteads. Includes HAER documentation, analysis and curation of historic and pre-historic artifacts, site form preparation, archival research, Phase II and Phase III reports.

- Section 106 – Air Force Research Laboratory, Mesa, Arizona – Historic Building Assessment and Evaluation Report. Project included archival research, historic context, building description and site form.
- Section 106 – Army Corp of Engineers, 404 Permit review of the decommissioned Marine Corps Air Station El Toro, California. Project consisted of re-surveying 76 buildings and structures previously reviewed in 1996 for National Register Eligibility. Project included field survey, archival research, and updating site forms.
- Section 106 - Nellis Air Force Base, Nevada – Historic Building Report on Capehart & Wherry Housing. Project included archival research, site forms, photography.
- Section 106 - Andersen Air Force Base, Guam - Supervise archaeological subcontractors Phase III survey project for Air Force client.
- Section 106 - Clear Air Force Base, Alaska – Project to create booklet, bronze plaque and outdoor interpretive signs to record the Cold War radar operations.
- Section 106 – Bureau of Land Management, Kern Front Oil Fields, Bakersfield, CA - Historic Building Assessment and Evaluation Report for leaseholder. Project included archival research, historic context, building description, industrial archeology investigation and site form.
- Section 106 – Army Corp of Engineers, Union Pacific Railroad - Historic Building Assessment and Evaluation Report of all the bridges and culverts located in 102 mile section. Project included field survey, archival research, historic context, bridge and culvert descriptions, and site forms.
- Section 106 re-survey of decommissioned El Toro Air Station, Irvine, CA.
- Section 106 review of Jim’s Corner Store, Burlington, VT.
- Section 106 Level 1 Reconnaissance of Jericho, VT, Rt. 15 intersection.
- Section 106 Level 1 Reconnaissance of Milton, VT, sidewalk project.
- Section 106 Level 1 Reconnaissance of Essex, VT, sidewalk project.
- Section 106 Level 1 Reconnaissance of Town of Hartford, VT, sidewalk/bike project.
- CALTRANS – Historic Resource Evaluation of Old Newport Blvd. Improvement, Newport Beach, CA
- CALTRANS – Historic Resource Evaluation of Brittan School Sidewalk Improvements, Sutter, CA
- CALTRANS – Historic Resource Evaluation of Interstate 10 Interchange, Coachella, CA
- CALTRANS – Historic Resource Survey of APE, Route 94, Juma, San Diego County, CA
- CALTRANS – Finding of Effects for High Desert Corridor Project, Los Angeles and San Bernardino Counties
- CALTRANS – Historic Resource Survey of APE for Park Avenue Bridge, Balboa Island, Orange County, CA
- CALTRANS – Historic Resource Evaluation of two bridges in Madera County, CA
- CALTRANS – Historic Resources Evaluation of Kentucky Avenue and Streets Widening, Woodland, CA
- CALTRANS – Historic Resources Evaluation of five housing tracts and two individual resources for the Brookhurst Road Widening Project, Anaheim, CA.
- CALTRANS – Historic Resources Evaluation, Lincoln Avenue Widening Project, Orange, CA.
- CALTRANS – Historic Resources Evaluation, Bridge Evaluation, and Finding of Effect for Araz Bridge in the All-American Canal Historic District, Araz Junction, CA.
- CALTRANS – Historic Resources Evaluation Report and Finding of Effect for the Park Once Transit Parking Structure, Redlands Santa Fe Depot Historic District, Redlands, CA.
- CALTRANS – Survey and evaluation of the project corridor for the proposed Cabot-Camino Bridge, Mission Viejo, CA.
- CALTRANS – Survey and evaluation of Pacific Mobile Home Park, Huntington Beach, CA.
- CALTRANS – Finding of Project Effects, Victoria Avenue, Riverside, CA.
- CALTRANS - Survey and evaluation of 45 buildings and structures along State Route 99, Stockton, CA.
- CALTRANS - Survey and evaluation of 1915 railroad bridge for seismic repair project, El Monte, CA.
- CALTRANS - Survey and evaluation of 75 buildings and structures along State Route 99, Manteca, CA.
- CALTRANS - Survey and evaluation of Pacific Coast Highway Interchange, Long Beach, CA.
- CALTRANS - Review of residential structures located in the project area, Red Hill Avenue, Orange County.
- NYS DOT - Survey of historic bridges in Oswego, Oswego and Onondaga Counties, New York.
- ISTEA Historic Resource survey, Lake Champlain Railroad Causeway/Bikepath, Colchester, VT.
- VSA22 Historic Resource review, Goodrich Memorial Library, Newport, VT.
- VAOT Highway Resurfacing Program, Dufresne-Henry Engineers. 2001-2003.
- National Register Historic Landscape survey of historic agricultural properties in Essex County, NY.  
Intensive level survey of 8 historic farmsteads.

National Register Nomination for Residential Historic District, Vergennes, VT. NR nomination of 110 residences and outbuildings dating ca. 1790 to 1950.

National Register Nomination of Fairfield Baptist Church, Fairfield, VT. Nomination of rural community church with ties to President Chester Arthur.

National Register nomination for Laurel Hall, Cuttingsville, VT. Nomination of private country villa, conservatory, carriage barn, and mausoleum.

Integrated Cultural Resources Management Plan (ICRMP) Update – Corona Naval Weapons Center – update historic properties treatment.

Integrated Cultural Resources Management Plan (ICRMP) Update – Seal Beach Naval Weapons Center – update historic properties treatment.

Integrated Cultural Resources Management Plan (ICRMP) Update – Fort Hunter Liggett, U.S. Army Reserves Base – update historic properties treatment.

Integrated Cultural Resources Management Plan (ICRMP) Update – Camp Parks, U.S. Army Reserves Base – update historic properties treatment.

Integrated Cultural Resources Management Plan (ICRMP) – Moffat Field, U.S. Army Real Property – create historic properties treatment for ICRMP.

● **State Level Projects**

CEQA – Historic Resource Assessment Report of Lincoln Street Improvements, Taft, CA

CEQA – Historic Resource Assessment Report of Chollas Creek Bikeway Project, San Diego, CA

CEQA – Historic Resource Assessment Report of Brookside Equestrian Center, Walnut, CA

CEQA – Historic Resource Assessment Report of George Washington School, Colton Joint Unified School District, CA

CEQA – Historic Resource Assessment Report of 985 South Hamilton Blvd., Pomona, CA

CEQA – Historic Resource Assessment Report of Oak Crest School, San Dieguito School District, CA

CEQA – Historic Resource Assessment Report of 812 North State Street, Hemet, Riverside County, CA

CEQA – Historic Resource Assessment Report of Killefer School, Orange Unified School District, Orange County, CA

CEQA – Historic Resource Assessment Report of the Dam at Lake Gregory, San Bernardino County, CA

CEQA – Historic Resource Assessment Report of 1336 – 1365 East Colorado Boulevard, Pasadena, CA

CEQA – Historic Resource Assessment Report of St. George Catholic Church (1923), Ontario, CA

CEQA – Historic Resource Assessment Report of Upper Arroyo Seco Parkway, Pasadena, CA

CEQA – Historic Resource Assessment Report for Old Schoolhouse, Azusa School District, CA

CEQA – Phase 1 Evaluation of Potential Historic Resources, West Desert Hot Springs Master Drainage Project, CA

CEQA – Historic Resource Assessment Report of 12655 Garber Street, Pacoima, Los Angeles County, CA

CEQA – Phase 1 Evaluation of Potential Historic Resources, Moorpark, CA

CEQA – Historic Resource Assessment Report of Magnolia-Plaza Substations, Riverside, CA

CEQA – Historic Resource Assessment Report of 777-779 South Coast Highway, Laguna Beach, CA

CEQA – Historic Resource Assessment Report of Granite Mountain Biology Center, University California Riverside, CA

CEQA – Historic Resource Assessment Report of UCLA Stuart House, Santa Monica, CA

CEQA – Historic Resource Assessment Report of 705 No. Camden Drive, Beverly Hills, CA

CEQA – Historic Resource Assessment Report of 56831 Olive Avenue, Thermal, CA

CEQA – Historic Resource Assessment Report of 18771 Oriente Drive, Yorba Linda, CA.

CEQA – Historic Resource Assessment Report of Beckman Coulter complex, Fullerton, CA.

CEQA – Evaluation of proposed project to Central Historic District, Pasadena, CA.

CEQA – Historic Resource Assessment Report of Palm Springs High School campus, Palm Springs, CA.

CEQA – Historic Resource Assessment Report of El Camino Community College, Torrance, CA.

CEQA – Historic Resource Assessment Report of Camp Kilpatrick Juvenile Detention Camp, Los Angeles County, CA.

CEQA – Historic Resource Assessment Report of Jordan High School, Long Beach, CA.

CEQA – Historic Resource Assessment Report of Pitchess Detention Center, Los Angeles County, CA.

CEQA – Historic Resource Assessment Report for Santa Anita Wash Debris Basin, Los Angeles County, CA.

CEQA – Historic Resource Assessment Report of Ramon Academy Administration Building, Palm Springs High School, CA.

CEQA – Historic Resource Assessment Report of Bryn Mawr Schoolhouse, Loma Linda, CA.

CEQA – Evaluation of proposed project to Irvine Regional Park, Orange County, CA.

CEQA – Historic Resource Assessment Report of Holtz Ranch property, Silverado Canyon, CA.

- CEQA – Evaluation of new construction on Santa Fe Avenue, Fullerton, CA.
- CEQA – Historic Resource Assessment Report of Upper Sunset Canyon Debris Basin Dam, Los Angeles County, CA.
- CEQA – Historic Resource Assessment Report of 1920s adobe-brick homestead in Lancaster, CA.
- CEQA – Historic Resource Assessment Report of the Glendale Courthouse, Glendale, CA.
- CEQA – Historic Resource Assessment Report of the California State Printing Plant, Sacramento, CA.
- CEQA – Historic Resource Assessment Report of the Olympic Tank Farm, Wilmington, CA.
- CEQA – Historic Resource Assessment Report of the Swiss Ross (Albion) Dairy property, Los Angeles, CA.
- CEQA – Historic Resource Assessment Report of three parcels on Cole Avenue and the El Nido Hotel, Hollywood, CA.
- CEQA – Historic Resource Assessment Report of the property at 255 St. Ann’s Drive, Laguna Beach, CA.
- CEQA – Historic Resource Assessment Report for the properties at 625 and 641 Landfair Avenue, and 548 and 564 Glenrock Avenue, Westwood Village, CA.
- CEQA – Historic Resource Assessment Report of the property at 37162 South Coast Highway, Laguna Beach, CA.
- CEQA – Historic Resource Assessment Report of a 1940s self-contained sewage treatment plant, Lancaster, CA.
- CEQA – Historic Resource Assessment Report for the Riverside County Economic Development Agency - Coachella Valley Rescue Mission, Indio, CA.
- CEQA – Historic Resource Assessment Report for the Brookhurst Street Widening Project, Anaheim, CA.
- CEQA – Historic Resource Assessment Report for Riverside County Economic Development Agency – Riviera Restaurant, Rubidoux, CA.
- CEQA – Perform peer review services on documents prepared for California Energy Commission for a project in Palmdale, CA. Prepare historic context of project area, and describe potential impacts to built-environment resources and provide recommended mitigation measures.
- CEQA – Historic Resource Assessment Report for 4149 Chestnut Street, Riverside, CA.
- CEQA – Historic Resource Assessment Report for 942 West Holt Avenue, Pomona, CA.
- CEQA – Historic Resource Assessment Report of Banning Ranch, Newport Beach, CA.
- CEQA – Historic Resource Assessment Report for Centennial Ranch Project, Gorman, CA.
- CEQA – Historic Resource Assessment Report of historic irrigation system, Turlock, CA.
- CEQA – Historic Resource Assessment Report of 2385 South Willow Avenue, Rialto, CA.
- CEQA – Historic Resource Assessment Report, Orange County Civic Center, Santa Ana, CA.
- CEQA – Historic Resource Assessment Report of Los Angeles County Fire Station, Malibu, CA.
- CEQA – Historic Resources Assessment Report of water diversion features, Sonoma, CA.
- CEQA – Historic Resources Assessment Report for Fontana Fire Station #1, and American Legion Post 262, constructed in 1927.
- CEQA – Historic Resources Assessment Report for Department of Water Resources, Redlands, CA. Record and research historic Cold War-era structures and landscape.
- CEQA – Historic Resources Assessment Report of historic date and citrus farm in Coachella, CA.
- CEQA – Historic Resources Assessment Report for Glendale College Expansion Project.
- CEQA – Historic Resources Assessment Report of residential structure in Apple Valley, CA.
- CEQA – Historic Resources Assessment Report of structures in Loma Linda, CA.
- CEQA – Historic Resources Assessment Report of residence on Cedar Street, Glendale, CA.
- CEQA – Historic Resources Assessment Report of 1894 carriage house in Los Angeles, CA.
- CEQA – Historic Resources Assessment Report of farmhouse in the City of Moreno Valley, CA.
- CEQA – Historic Resources Assessment Report of four properties on Carlton Avenue, Hollywood, CA.
- CEQA - Wrightwood Housing Development – record and research historic structure located in the project ROW. Consult with San Bernardino County environmental department.
- CEQA – White Springs Sulphur Pools, Riverside, CA – Phase I survey for determination of CRHR and NR eligibility.
- CEQA – Fitch Avenue Bridge – Phase I survey determination of rural one-lane bridge.
- CEQA –New Model Colony housing development – Phase I & II survey of rural agricultural properties, Ontario, CA.

● **Local Level Projects**

HABS-level documentation of Mabey Canyon Creek stone bridge, Corona, CA  
Evaluation of proposed project to stone wall at 18771 Oriente Drive, Yorba Linda, CA  
Construction monitoring of the Beckman Coulter project, Fullerton, CA  
Evaluation of proposed project to Governor's Mansion, Sacramento, CA  
HABS Level 1 documentation for Sexlinger House and Orchard, Santa Ana, CA  
Construction monitoring for the Pine Valley Highway Bridge, San Diego County, CA  
Evaluation of proposed alterations to Rawlins House, City Landmark Property, Fullerton, CA  
HABS-level documentation for mitigation of rock walls in Irvine Regional Park, Orange County, CA.  
Develop Mitigation Measures Plan (MMP) for historic resource listed on the National Register and California Register of Historic Resources, in accordance with the Secretary of the Interiors Standard of Treatment for Preservation of Historic Structures. Redlands, CA.  
HAER-level documentation of Reservoir #1, Yorba Linda, CA.  
HABS-level documentation of Fire Station #1, Fontana, CA.  
HABS-level documentation of American Legion Post 261, Fontana, CA.  
HABS level documentation of Riverrock bungalows in Riverside, CA.  
HABS-level documentation of The Quilt Stop, Sparks, NV.  
HABS-level documentation of the Snyder Ranch, Apple Valley, CA.  
Historic resource evaluation of commercial property on Euclid Avenue, Ontario, CA.  
Viewscape review for proposed housing development, Reno, NV.  
Historic Sites and Structures Survey for the Town of Shelburne, VT. Phase II survey of 40 residential and agricultural properties  
Survey Plan for the City of Burlington, Burlington, VT. Ten-year plan for future survey work in city.  
Urban Survey, 2000, City of Burlington, Burlington, VT. Phase I survey and photographs of 250 urban historic resources.  
Urban Survey, 2001, City of Burlington, Burlington, VT. Phase I survey and photographs of 220 urban historic resources.  
Historic Sites and Structures Survey: Phase IV for the Town of Windsor, VT. Phase II survey of 40 structures and historic context of Buena Vista District.  
Historic Sites and Structures Survey: Phase V for the Town of Windsor, VT. Review of 1977 National Register nomination, proposed additions, and additional description of resources.

● **Architectural Conservation Projects (per Secretary of the Interior's Standards)**

Develop exterior alteration plans for alterations to Palm Springs High School Auditorium, Palm Springs, CA  
Develop exterior design plans for the rehabilitation and addition to a historic cabin in the San Bernardino National Forest.  
Provide consulting services to the City of LaVerne to review the proposed alterations to the auditorium in Founder's Hall on LaVerne University.  
Review exterior design plans for the alteration of the Johnson Cabin in the San Bernardino National Forest.  
Develop exterior design plans for the alteration of a historic cabin in the San Bernardino National Forest.  
Develop exterior design plans for the rebuilding of a historic cabin in San Bernardino National Forest.  
Historic Structures Report, including conditions assessment and treatment plan for 1885 Lindo Lake Boathouse, Lakeside, CA.  
Historic Structures Report, including conditions assessment and treatment plan for 1887 Bancroft Rock House, Spring Valley, CA.  
Historic Structures Report, including conditions assessment and treatment plan for 1865 Rutland Railroad Train Station, Vergennes, VT.  
Historic Structures Report for emergency stabilization of endangered historic property in Essex, NY.  
Repair and restoration of early 20<sup>th</sup> century house in Riverside, CA.  
Architectural repair specifications for the 1805 Bradley Law Office, Westminster, VT  
Project management of early 19<sup>th</sup> century house rehabilitation, St. Albans, VT.  
Repairs and maintenance of converted barn in Ithaca, NY.  
Historic paint finishes analysis for Town of Rockingham, VT.  
Historic paint finishes analysis for Middlebury Town Hall, VT.

Historic paint finishes analysis for Labor Union Hall, Barre, VT.  
Repair and restoration of cast iron fence for Greystone Mansion, Essex, NY.  
Photo survey of Labor Union Hall, Barre, VT, prior to rehabilitation.  
Evaluation and research of historic colonial tannery structure in Essex, NY.  
Rehabilitation of 19<sup>th</sup> century barn for use as residence, Trumansburg, NY.

● **Historic Preservation Educational Projects**

Presentation to the Orange County Association of Environmental Professionals (AEP) “Current Issues with CEQA and Historic Resources.”  
Presentation to the Mission Inn Museum – “Hidden Histories.”  
Presentation to the Moreno Valley Historical Society – “Explaining Historic Resource Eligibility Criteria.”  
Presentation to the U.S. Forest Service – Region 5, “Evaluating Historic Resources.”  
Create text on the history of the San Antonio Valley after 1850 for Fort Hunter Liggett Army Reserve.  
Education and slide presentation of American architectural styles.  
Education and slide presentation of California revival architectural styles.  
Walking tours of Windsor, Vergennes and Shelburne, Vermont.  
Research paper on decorative historic painted finishes created in Vermont public buildings during the late 19<sup>th</sup> century.

● **Other Preservation Projects:**

Adaptive Reuse – Downtown Development Project for six historic structures in Morrisville, VT.  
Develop Revised Design Review and Zoning Guidelines, City of Burlington, VT.  
Part of team to develop guidelines for protecting historic resources in the city.  
Presenter at Vermont Historic Preservation Conference on Industrial Archeology and site research.  
Developed and implemented educational tours and day programs of historic sites and properties.  
Awarded grant proposals for educational and historic preservation projects.  
Developed and designed fundraising and publicity brochures.

● **Preservation Skills**

Maintenance and repairs to historic structures including painting, mortar analysis, mortar repointing, and plaster repair.  
Historic Structures Reports - condition assessment reports.  
Use of the Secretary of the Interiors Standards for the restoration, rehabilitation, or restoration of historic buildings.  
Historical paint analysis (chromochronology).  
Research of historic structures using deeds, wills, public records and archival documentation.  
Nomination of historic sites and structures for the National Register of Historic Places.  
Section 106 and 110 of the National Historic Preservation Act.  
Federal Historic Preservation Tax Incentive program.  
California “Mills Act” historic preservation program.

**Business Management/Accounting**

- Over 25 years experience in financial management and accounting.
- Competence in all accounting aspects: profit and not-for-profit organizations.
- Successful grant writing and funding from state, private and federal agencies.
- Extensive experience corresponding with federal, state, county and private organizations regarding agency fiscal requirements.
- Analyzed the efficiency of business internal accounting systems, implementing procedures to improve financial accuracy and operating cost-effectiveness.

**Financial Project Management/Supervision**

- Managed agency and individual project budgets from \$350,000 to \$2.5 million.
- Responsible for overseeing budget and direct labor requirements of Government contracts.
- Financial project management for 26 concurrent projects valued at \$29 million.
- Coordinated five departments to meet financial and organizational goals.
- Supervised eight project managers to meet contractual agreements.
- Negotiated prime and sub-contractor agreements and purchase orders.
- Qualified contract specialist with U.S. Department of Defense, NASA and National Park Service. Experience with FAR, DFAR and associated regulations.

**Employment History**

2005 - present	Architectural Historian Consultant	Daly & Associates, Riverside, CA.
2003 – 2005	Sr. Architectural Historian	Earth Tech, Inc., Colton, CA.
1998 to June 2003	Architectural Historian Consultant	Daly & Associates, Shelburne, VT.
1998 (two semesters)	Teaching Assistant	Historic Preservation Dept., University of Vermont
1989 - 1997	Director of Contracts	Odyssey Research Assoc., Inc., Ithaca, NY.
1987 - 1989	Senior Corporate Accountant	Emerson Power Transmission, Ithaca, NY.

**Volunteer History**

1999– 2003	Commission Member – Town of Shelburne, Vermont Historic Preservation Design Review Board.
1996 - 1997	President - Board of Directors, Historic Ithaca, NY.
1993 - 1996	Board Member, Secretary, Historic Ithaca, NY.

**Professional Affiliations**

APT – Association for Preservation Technology  
CCPH – California Council for the Promotion of History  
CPF - California Preservation Foundation  
LTA - Land Trust Alliance  
NTHP - National Trust for Historic Preservation - Forum Member  
SIA - Society for Industrial Archeology  
VAF - Vernacular Architecture Forum



Appendix B:  
Cultural Resources  
Records Search Results

## CONTINUATION SHEET

Continuation     Update

**Caltrans Map Reference No.:** \_\_\_\_\_

**Resource Identifier:** P-36-024903

**County/Route/Postmile:** San Bernardino

This resource was recorded in 2012 by M. Dice as the open-air Cypress Channel, which was likely dug before 1938 to remove excess water out of orchards (Dice 2012). P-36-024903 was observed, as previously recorded during a survey by ICF archaeologists (2017) and appears to be currently used by the El Prado Golf Course for channeling runoff water. Only the portion running underneath and approximately 150 feet on either side of Pine Avenue was included in this 2017 survey. Modern culverts appear to have been added for sections of the channel undercutting portions of golf cart access roads for the El Prado Golf Course. Ornamental vegetation including palms were observed on either side of Pine Avenue along this earthen channel. This resource was previously found to be ineligible for inclusion in the NRHP and CRHR, which was supported by the most current survey.



**Overview of P-36-024903 including modern culverts, facing north.**

**Resources:**

Dice, M.

2012 DPR form P-36-024903. On file at the South Central Coastal Information Center.

Droessler, R. and P. McGinnis

2017 Pine Avenue Extension Project Archaeological Survey Report, City of Chino, San Bernardino County.

8/10

**P1. Other Identifier:**

\*P2. Location:  Not for Publication  Unrestricted \*a. County: San Bernardino

\*b. USGS 7.5' Quad: Prado Dam, CA. and Ontario, CA. Date: 1981 and begin T.3S R.7W, (Section 6) and ends T.2S R.7W, (Section 6.) S.B.B.M.

c. Address: City: Zip:

d. UTM: South end of Flood Control waterway joins with Chino Creek at 439594mE/3755740mN (Euclid Avenue) and the north end of the flood control waterway begins at a storm drain opening at 440352mE/3765224mN. Zone 11. Note: Points taken with GoogleEarth aerials, NAD 1984.

e. Other Locational Data: Flood Control Facility 1-901-1A, 1-901-1C and 1-905-6B. Elevation: 820-510 feet ASL.

\*P3a. Description: Located in east Chino and south Ontario, historic aerial photographs disclose that the Cypress Channel was a long ditch and trench very likely dug before 1938 that was used to remove excess water out of orchards in Ontario and fields in Chino. Today, the open-air portion of the channel begins at the corner of Walnut and Sultana where runoff from a storm drain buried below Sultana is deposited. County Flood Control has built a modern asphalted box culvert in this section of the channel. At this point waters run southwest in the culvert following the track of a former historic-era railroad branch line, through an undercrossing below Euclid, then into another v-shaped concrete box culvert, thence to a turn south at Riverside Drive, whereupon the channel runs directly south and across California Correctional Facility properties. The channel remains a concrete culvert until reaching a point just west of the Majestic project site, whereupon it becomes a shored trench, which quite likely represents the original condition of the channel during the 1938 historic period. Just before passing beneath Kimball Avenue, it again returns to a concrete v-shaped culvert and winds its way south until the channel reaches the El Prado Golf Course. Water then winds through the golf course in what appears to have been the original wash channel, joins with Chino Creek at Euclid and eventually merges with the floodplain of the Prado Basin.



\*P3b. Resource Attributes:  
 HP11

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other

P5b. Description of Photo:  
 View north of the unmodified Cypress Creek channel from Kimball Avenue.

\*P6. Date Constructed/Age and Sources:  Historic  Prehistoric  Both

\*P7. Owner and Address:  
 San Bernardino County Flood Control

\*P8. Recorded by:  
 M. Dice, M.A.  
 Michael Brandman Associates  
 621 E Carnegie Dr, Suite #100  
 San Bernardino, CA. 92408

\*P9. Date Recorded:

August 22, 2012

\*P10. Survey Type: CEQA level Phase 1 survey.

\*P11. Report Citation: Dice, M.H. 2012. Phase 1 Cultural Resource Survey of the Majestic Airport Center Project, City of Chino, California. Draft dated August 22, 2012.

\*Attachments:  NONE  Location Map  Sketch Map  Continuation Sheets  Building, Structure, and Object Record  Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  Artifact Record  Photograph Record  Other (List):

**BUILDING, STRUCTURE, AND OBJECT RECORD**

Page 2 of 5

\*NRHP Status Code: 6Z

**\*Resource Name or #: Cypress Channel**

**B1. Historic Name:** unknown

**B2. Common Name:**

**B3. Original Use:** Runoff drain for orchards, fields and roads.

**B4. Present Use:** Flood control channel

**\*B5. Architectural Style:** None

**\*B6. Construction History: (Construction date, alterations, and date of alterations)**

According to a 1938 aerial photograph found at "[www.netr.com](http://www.netr.com)" the Cypress Channel may have begun as a simple ditch along a spur railroad originating at a Sunkist packinghouse at Sunkist and Monterey south of the Ontario downtown core. The old spur railroad grade, known on the 1912 USGS *Ontario, CA.* topographic map as the *Southern Pacific Railroad Chino Branch* ran roughly south from the packinghouse parallel to what is now Monterey Avenue (in the 1938 photo, the tracks have clearly been removed but the grade scar remains) then southwest until ending at the railroad sidings just south of the downtown portion of Chino where other packing houses were located. The railroad grade ran through numerous small orchards located on relatively flat land, and a ditch would have been necessary to shunt water away from the grade. The ditch appears to have become a formal excavated and probably cut and shored channel just south of the corner of what is now Fern and Blue Jay Way a little east of Euclid in northeast Chino. At that time, a second railroad line (this appears to have been the then-active *Chino Valley Narrow Gauge Railway* - which ran down the middle of Euclid Avenue) plus another drain paralleling Fern Avenue merged to form a formal channel along the north side of the narrow gauge railway tracks. At Cypress Avenue, the channel turned and ran due south through orchards and fields, similar to that observed near the project site. This channel appears constructed in the same manner until reaching Kimball Avenue, whereupon it becomes a very natural-looking wash channel that winds its way through the bottomlands between Chino Creek and Cucamonga Wash in an area that is now known as the 200-year flood reservoir of the Prado Basin. At time of the 1938 photograph, Prado Dam has not yet been built.

Only that portion of the Cypress Channel adjacent to the Majestic project area as well as certain unshored sections in the El Prado Golf Course appears original compared with the 1938 image, while the rest of the channel has been modified to concrete through regional flood control efforts. *This remains the only segment of the channel evaluated for significance. The El Prado section has not been previously recorded.*

Near the Majestic project site, the channel consists of a trench cut to about 10 feet below existing grade using heavy equipment, then shoring in the form of cut railroad ties and wire netting had been placed along the edges of the cut channel so as to hold back erosional deterioration. Soils located below the plow zone of adjacent properties can be observed, but an extensive amount of dumping had occurred due to the open nature of the channel in this area. Piles of concrete, vegetation, wood and trash can be observed.

Channels such as these were built during the historic period purely as a way of removing unwanted water from roadways, railroads and developed lots with impermeable surfaces. Because regional (County) flood control management had not been authorized by the State until 1939, runoff from orchards, fields and the streets of cities was typically sent to the nearest creek or river that was nearby by local authorities. In the case of Chino and Ontario, runoff was an increasingly cumbersome problem because these towns were built on ancient alluvial fan sediments east of Chino Creek and north of the Santa Ana with a drop in grade typically about 50-60 feet per mile (55/5280) or about 1% slope. Few natural creeks or drainages existed in this area so flooding and damage to existing roadways and orchards was often extensive during intense storms, especially when flood waters would develop and flow out of the San Gabriel Mountains to the north.

There is no evidence that this flood control engineering structure was created by a significant local person, nor is it known exactly when it was first constructed. Events that are reflected by its existence as an engineered structure are uniquely significant to the history of flood control in the Chino-Ontario region because most of the old channels have been converted to concrete culverts. However, the loss of integrity in the whole of the channel since 1938 is nearly complete. The section of Cypress Channel directly adjacent to the project site represents the only original portion of the old channel that exists: *the remainder has been modernized by San Bernardino County Flood Control.* Therefore the integrity of the facility since the earliest period we know about (1938 and before) has been lost to the point where the whole of the channel no longer reflects the historical period. The location of the old channel is marked by a permanent culvert

**\*B7. Moved?**  No  Yes  Unknown

**Date:**

**Original Location:**

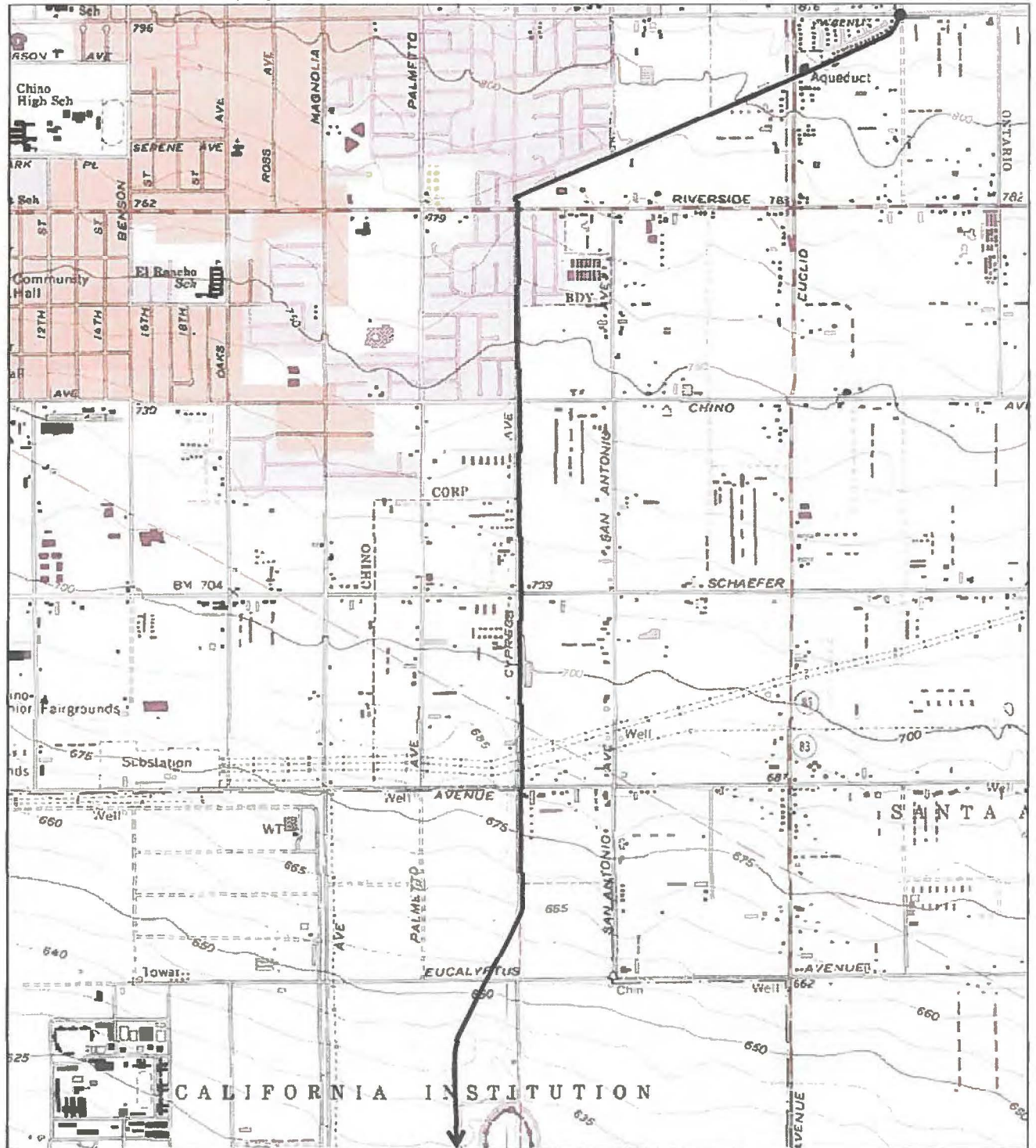
**\*B8. Related Features:** None

**B9a. Architect:** none.

**b. Builder:** unknown

**\*B10. Significance:** The intact segment from the historic period is considered not significant at the Local and State level of analysis through survey evaluation.

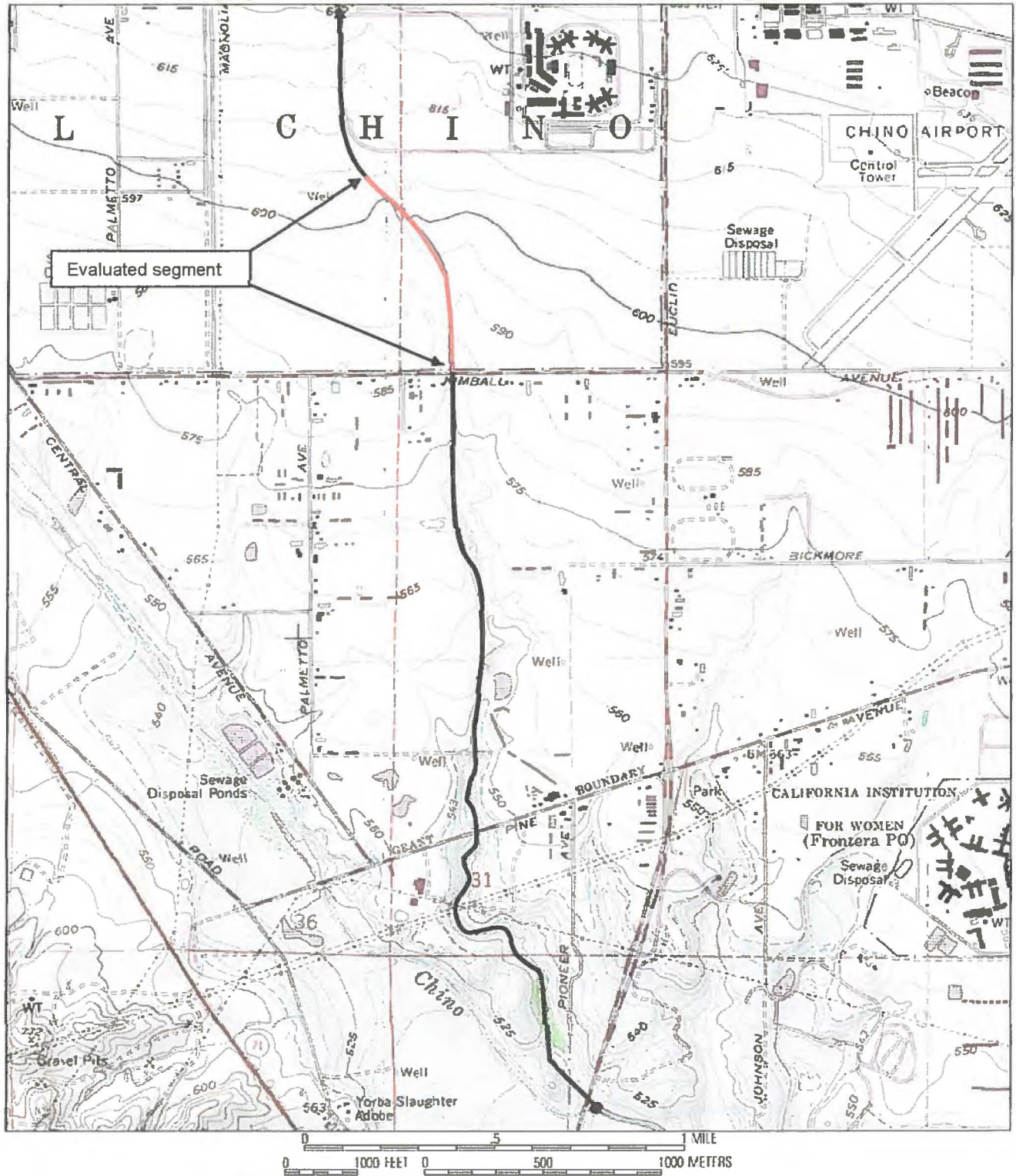
MBA project #0576.0039.0 - USGS Ontario, CA. 7.5' topographic map



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

Note: map to scale. North is up. Black line shows location of Cypress Channel as of about 1938.

MBA project #0576.0039.0 - USGS Prado Dam, CA. 7.5' topographic map



Note: map to scale. North is up. Black line shows location of Cypress Channel as of about 1938 and red line shows the historical segment evaluated for the Majestic project.



View south of the Cypress Channel north of Kimball showing the cut walls, railroad tie shoring and wire fence.



View north-northwest of the Cypress Channel showing the cut walls, railroad tie shoring and wire fence.

1/13

State of California — The Resources Agency  
DEPARTMENT OF PARKS AND RECREATION  
**PRIMARY RECORD**

Primary#: 36-025440

HRI #:

Trinomial:

NRHP Status Code: 6Z

Other Listings:

Review Code \_\_\_\_\_ Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Page 1 of 5 \*Resource Name or # Southern California Edison Company (SCE) Chino-Mira Loma No. 1 Transmission Line

**P1. Other Identifier:** \_\_\_\_\_

\*P2. Location:  Not for Publication  Unrestricted

\*a. County San Bernardino

+ GUASTI

\*b. USGS 7.5' Quad: Ontario & Prado Dam Date: 1967 photo revised 1981 T: \_\_\_\_\_ R: \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of Sec: \_\_\_\_\_ B.M. \_\_\_\_\_

c. Address: n/a City: n/a Zip: n/a

T23 R 7+8 W

d. UTM: (Give more than one for large and/or linear resources) Zone 11, \_\_\_\_\_ mE/ \_\_\_\_\_ mN

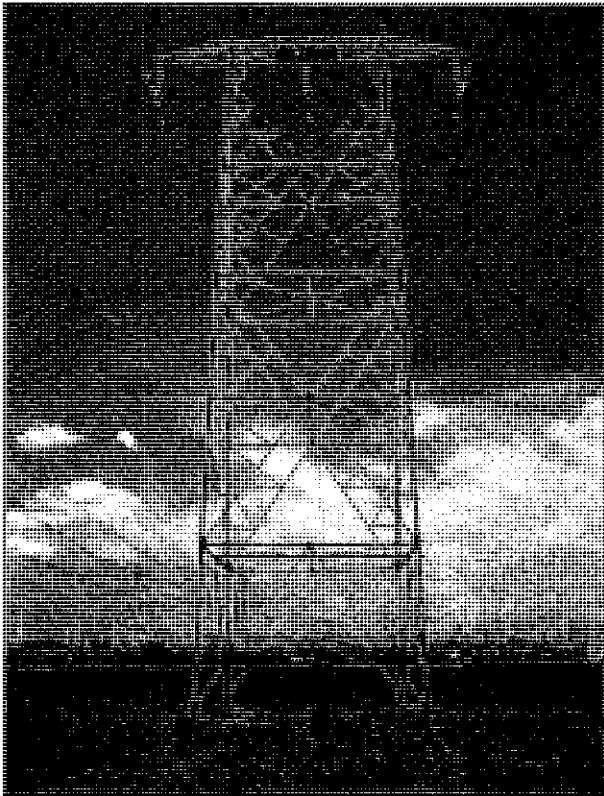
e. Other Locational Data:

**\*P3a. Description:**

The subject property is an approximate 12-mile 220kV electrical transmission line connecting the Southern California Edison Company's Chino and Mira Loma substations. The circuit is comprised of the transmission cables and their supporting towers as well as a grounding system. The line was originally designed with two parallel lines of single circuit towers; however in 1979 the eastern two-mile segment was converted to a single line of double circuit towers. The towers, which are the steel lattice type, are the most obvious feature of the transmission line. They are "T" shaped, holding the transmission cables in a horizontal array across their top. The towers were designed to be modular and their heights vary based on the given topography of their location, however they are typically approximately 90 feet tall. Each tower has four legs, approximately twenty feet apart, and rest on simple concrete footings. Spacing, like their height, varies based on topography, but they are generally installed 1,200 feet apart. Coil mount insulators provide connection between the transmission cables and the towers.

\*P3b. Resource Attributes: HP11: Engineering Structure (Transmission Line)

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)



**\*P5b. Description of Photo:**

Contemporary view of the Chino-Mira Loma No.1 220 kV Transmission Line. Image Source: Matthew Wetherbee, SCE Contingent Archaeologist / PCR Services, Inc.

**\*P6. Date Constructed/Age and Source:**

Historic, 1937 -1979

Prehistoric

Both

**\*P7. Owner and Address:**

Southern California Edison Co.  
2244 Walnut Grove Avenue  
Rosemead, CA 91770

**\*P8. Recorded by:**

Wendy L. Tinsley Becker, AICP, RPH, Principal  
Urbana Preservation & Planning, LLC  
3525 4<sup>th</sup> Avenue, San Diego, CA 92103  
619-543-0693/Phone  
248 3<sup>rd</sup> Street #841, Oakland, CA 94607  
510-663-7443/Phone

**\*P9. Date Recorded:**

June 2010

**\*P10. Survey Type:**

Intensive Level  
(CEQA / NHPA §106 Survey)

\*P11. Report Citation: Urbana Preservation & Planning, LLC. Southern California Edison Company's Tehachapi Renewable Transmission Project Historic Infrastructure Eligibility Evaluation – NRHP/CRHR Review Chino-Mira Loma No. 1 220kV Transmission Line. July 2010.

\*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List):



**BUILDING, STRUCTURE, OBJECT RECORD**

Page 2 of 5 \*Resource Name or # SCE Chino-Mira Loma No. 1 220kV Transmission Line \*NRHP Status Code: 6Z

B1. Historic Name: Chino-Mira Loma No.1 220 kV Transmission Line

B2. Common Name: Chino-Mira Loma No.1 220 kV Transmission Line

B3. Original Use: Electrical Transmission Line

B4. Present Use: Electrical Transmission Line

\*B5. Architectural Style: Utilitarian / Steel Lattice Tower

\*B6. Construction History: Original parallel two line single circuit constructed in 1937. Several towers were replaced in 1940. Over the years minor changes/maintenance activities completed to the lines as required, including the replacement of insulators in 1953. In 1979, the eastern two miles of line was rerouted and converted from a single to a double circuit configuration, which included the removal of seven towers (which were reused on the Mira Loma-Vincent 500kV transmission line), the relocation of two towers and addition of one new tower.

\*B7. Moved? No Yes Unknown Date: \_\_\_\_\_ Original Location: \_\_\_\_\_

\*B8. Related Features: The Chino and Mira Loma substations that the line physically connects to.

B9a. Architect: Southern California Edison Company b. Builder: Southern California Edison Company

\*B10. Significance: Theme: N/A Area: N/A

Period of Significance: N/A Property Type: Engineering Structure Applicable Criteria: N/A

The Chino-Mira Loma No. 1 220kV Transmission Line does not appear to be eligible for inclusion on the California Register of Historical Resources or the National Register of Historic Places. No information was found during the course of historical research to support a positive eligibility statement for the transmission line or its steel lattice transmission towers. The line was not identified as having a direct association with the historic elements or construction period at the Chino Substation (1912-1920s), nor was the transmission line found to relate to the City of Chino or the City of Ontario's outward expansion or growth patterns. The Chino-Mira Loma Transmission Line was not found to be technologically or materially innovative within the history of electrical transmission and voltage systems, and additional research of the line would not appear to provide additional information that would be considered important to the history of Chino, Ontario, San Bernardino County, the Southern California Inland Empire region, California, or the nation.

The Chino-Mira Loma No. 1 220kV Transmission Line does not appear to meet the definition of a historic property under the National Historic Preservation Act or a historical resource under the California Environmental Quality Act. Future undertakings or discretionary projects proposed along the line, including replacement of existing cables or steel towers, would not appear to cause a significant adverse effect or cause a substantial adverse change in the significance of a historic property or historical resource.

B11. Additional Resource Attributes: None

\*B12. References: Southern California Edison Company, Civil Engineering Group – Chino-Mesa Transmission Line files. Edison Electric Institute Bulletin, *Developments in Electrical Transmission*, 327-329. ([http://www.eei.org/industry\\_issues/industry\\_overview\\_and\\_statistics/history/Entering7thDecade.pdf](http://www.eei.org/industry_issues/industry_overview_and_statistics/history/Entering7thDecade.pdf))

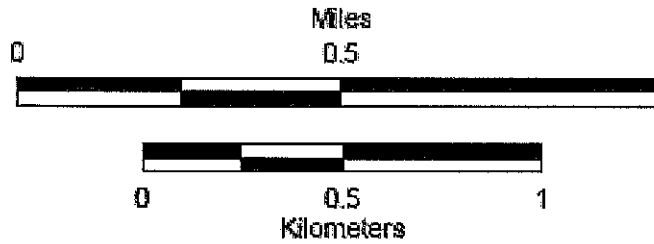
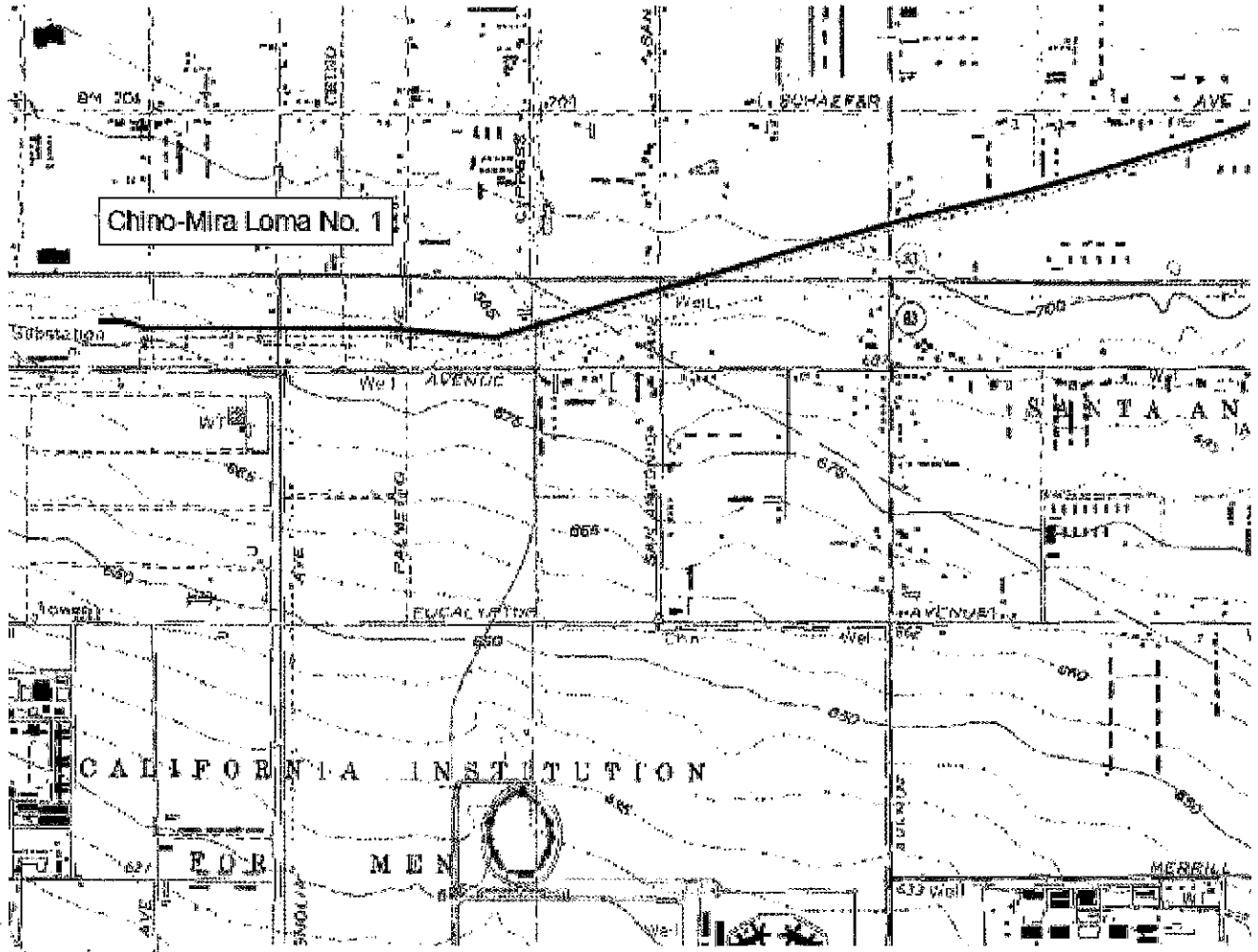
B13. Remarks: None.

\*B14. Evaluator: Wendy L. Tinsley Becker, AICP, RPH, Principal, Urbana Preservation & Planning, LLC

\*Date of Evaluation: June 2010

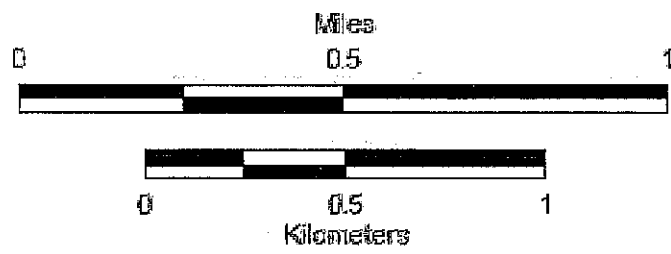
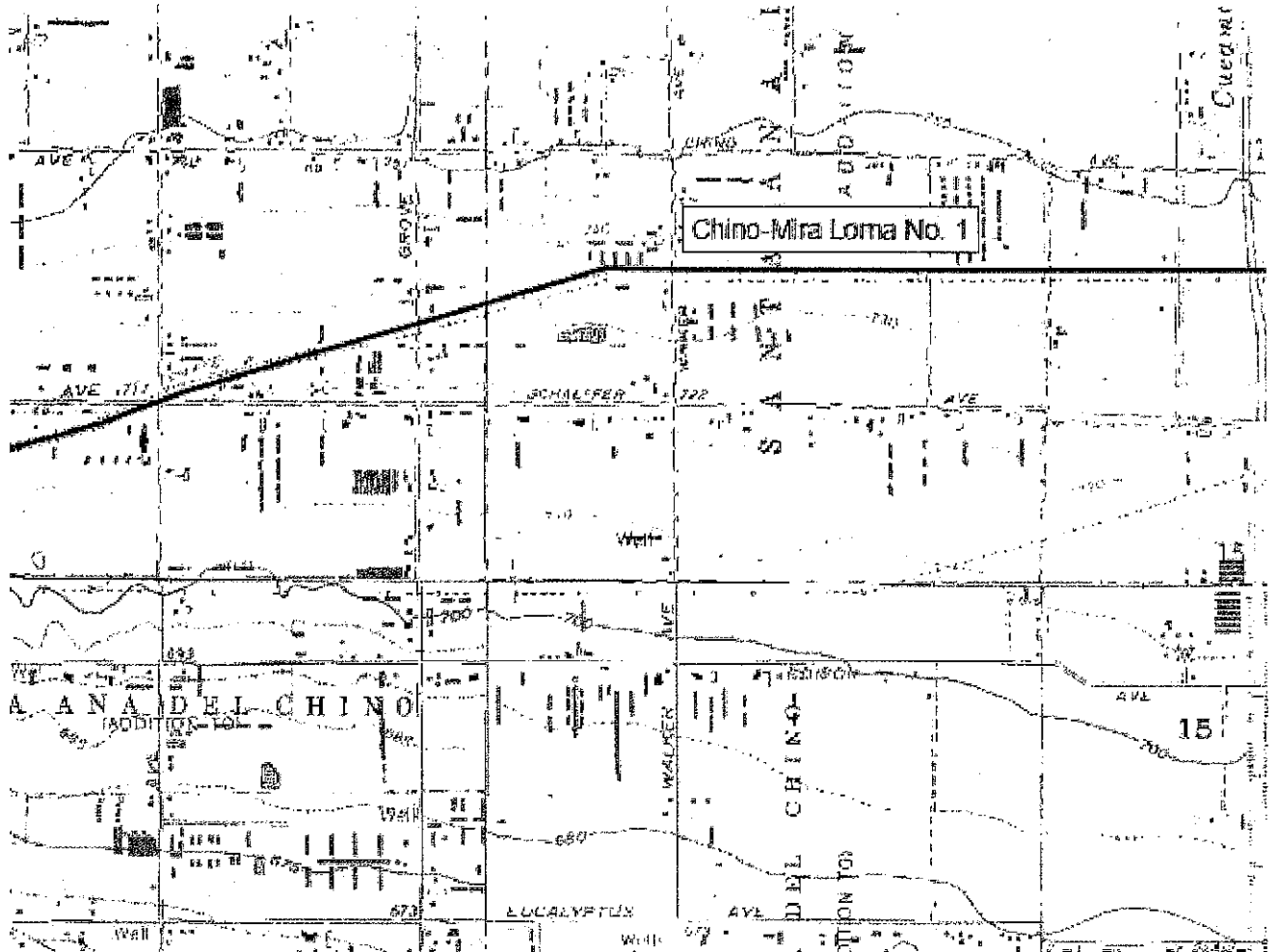
See Location Maps included as Pages 3-5.

Official Comments:



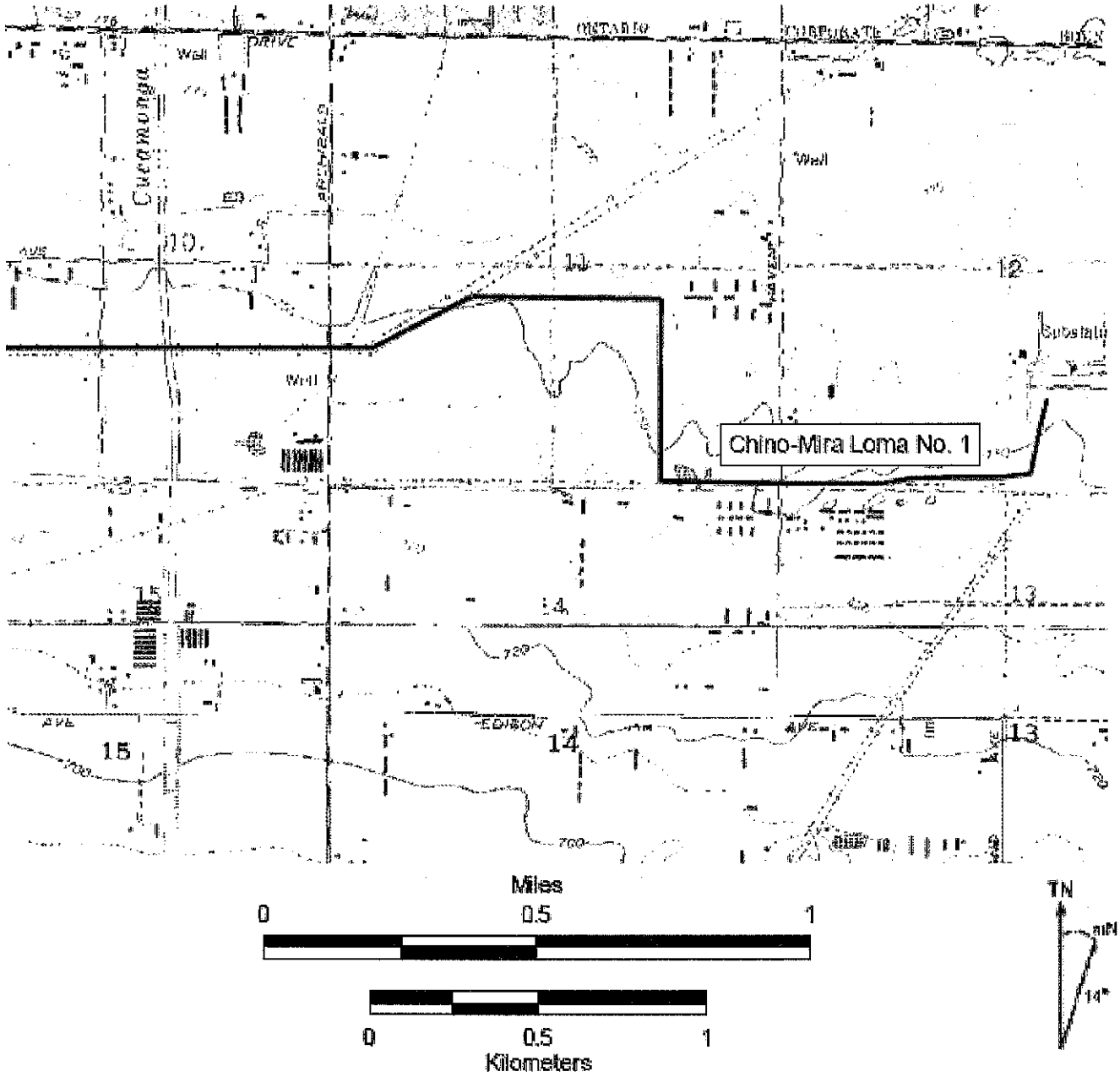
*Showing the general location of the Chino-Mira Loma No. 1 Transmission Line  
(Map 1 of 3).*

Page 4 of 5     \*Resource Name or # SCE Chino-Mira Loma No. 1 220 kV Transmission Line     \*NRHP Status Code: 6Z  
\*Map Name: Ontario & Prado Dam     \*Scale: 1:24000     \*Date of Map: 1967 Revised 1981/1981



*Showing the general location of the Chino-Mira Loma No. 1 Transmission Line  
(Map 2 of 3).*

Page 5 of 5 \*Resource Name or # SCE Chino-Mira Loma No. 1 220 kV Transmission Line \*NRHP Status Code: 6Z  
\*Map Name: Ontario & Prado Dam + GUASTT \*Scale: 1:24000 \*Date of Map: 1967 Revised 1981/1981



*Showing the general location of the Chino-Mira Loma No. 1 Transmission Line  
(Map 3 of 3).*

Appendix C:  
NAHC and Native American  
Correspondence

# Sacred Lands File & Native American Contacts List Request

## Native American Heritage Commission

1550 Harbor Blvd, Suite 100

West Sacramento, CA 95691

916-373-3710

916-373-5471 – Fax

[nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)

*Information Below is Required for a Sacred Lands File Search*

**Project:** Eucalyptus East

**County:** San Bernardino

**USGS Quadrangle Name:** Ontario and Prado Dam

**Township:** 02S      **Range:** 07W      **Section(s):** 19

**Company/Firm/Agency:** Material Culture Consulting, Inc.

**Street Address:** 2701-B N. Towne Ave.

**City:** Pomona      **Zip:** 91767

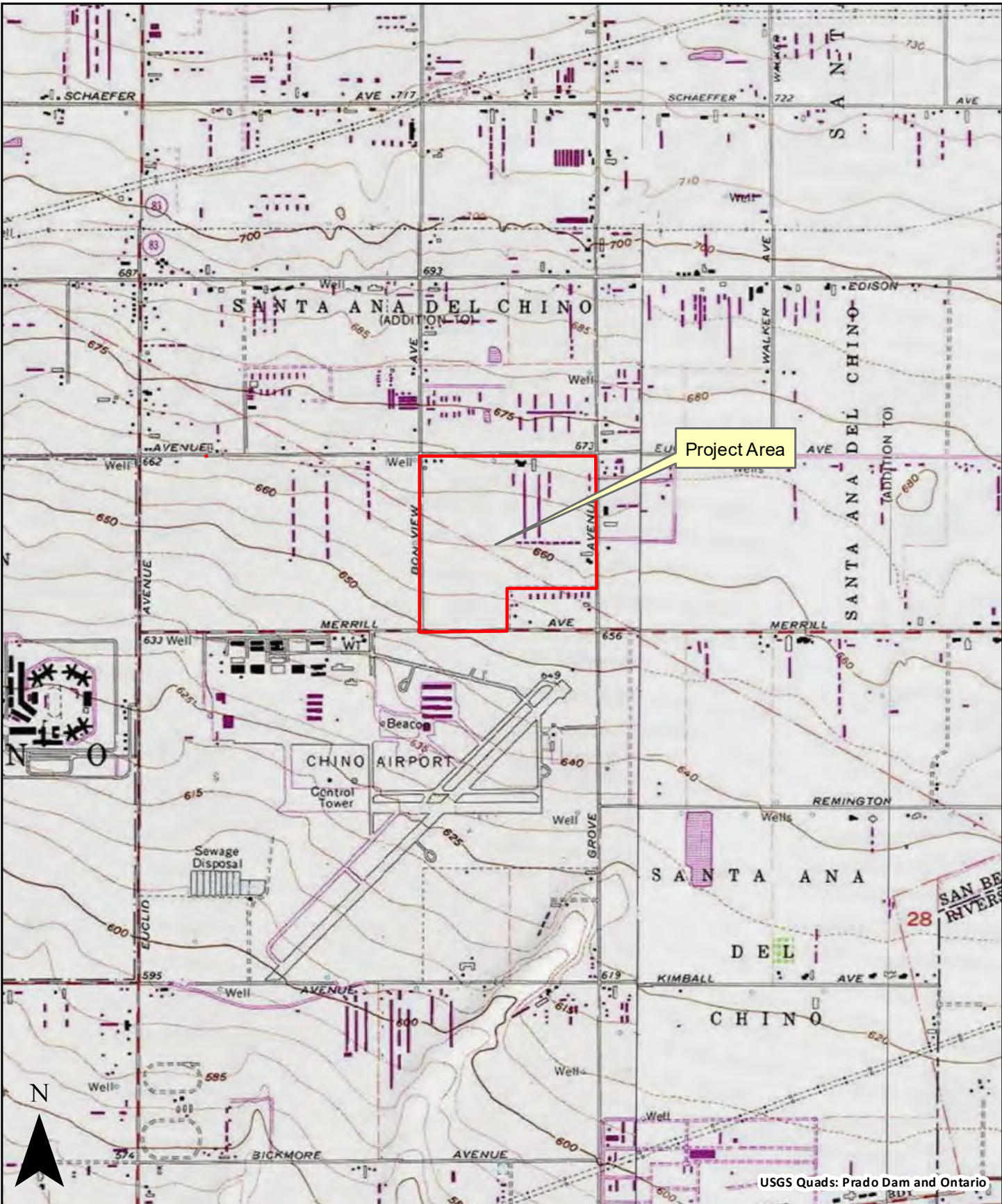
**Phone:** 626-205-8279

**Fax:** 626-205-8279

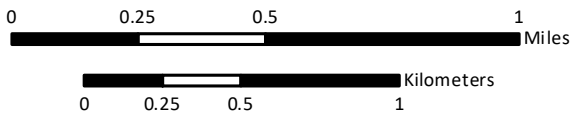
**Email:** tria@materialcultureconsulting.com


### Project Description:

This project proposes the construction of an Industrial Park in Ontario, CA. Please see the attached topo map for a more detailed location.



USGS Quads: Prado Dam and Ontario



 Project Area

1:24,000



NATIVE AMERICAN HERITAGE COMMISSION  
Cultural and Environmental Department  
1550 Harbor Blvd., Suite 100  
West Sacramento, CA 95691  
Phone: (916) 373-3710  
Email: [nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)  
Website: <http://www.nahc.ca.gov>  
Twitter: @CA\_NAHC



October 10, 2018

Allison Hill  
Material Culture Consul.  
2701-B N.Towne Ave.  
Pomona, CA 91767

VIA Email: [allison@materialcultureconsulting.com](mailto:allison@materialcultureconsulting.com)

RE: Eucalyptus East

Dear Ms. Hill;

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: [Katy.Sanchez@NAHC.ca.gov](mailto:Katy.Sanchez@NAHC.ca.gov).  
Sincerely,

A handwritten signature in blue ink that reads "Katy Sanchez for".

Katy Sanchez

Associate Environmental Planner  
Attachment

Cc: [tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)



**Native American Heritage Commission  
Native American Contacts List  
10/09/2018**

Gabrieleno Band of Mission Indians - Kizh Nation  
Andrew Salas, Chairperson  
P.O. Box 393  
Covina CA 91723  
admin@gabrielenoindians.org  
(626) 926-4131

Gabrielino

San Fernando Band of Mission Indians  
Donna Yocum, Chairperson  
P.O. Box 221838  
Newhall CA 91322  
ddyocum@comcast.net  
(503) 593-0933  
(503) 574-3308

Fernandeno  
Tataviam  
Serrano  
Vanyume  
Kitanemuk

Gabrieleno/Tongva San Gabriel Band of Mission Indians  
Anthony Morales, Chairperson  
P.O. Box 693  
San Gabriel CA 91778  
GTTribalcouncil@aol.com  
(626) 483-3564 Cell  
(626) 286-1262 Fax

Gabrielino Tongva

San Manuel Band of Mission Indians  
Lee Clauss, Director-CRM Dept.  
26569 Community Center Drive  
Highland CA 92346  
lclauss@sanmanuel-nsn.gov  
(909) 864-8933  
(909) 864-3370 Fax

Serrano

Gabrielino /Tongva Nation  
Sandonne Goad, Chairperson  
106 1/2 Judge John Aiso St., #231  
Los Angeles CA 90012  
sgoad@gabrielino-tongva.com  
(951) 807-0479

Gabrielino Tongva

San Manuel Band of Mission Indians  
Lynn Valbuena  
26569 Community Center Dr.  
Highland CA 92346  
(909) 864-8933

Serrano

Morongo Band of Mission Indians  
Denisa Torres, Cultural Resources Manager  
12700 Pumarra Road  
Banning CA 92220  
dtorres@morongo-nsn.gov  
(951) 849-8807

Cahuilla  
Serrano

Serrano Nation of Mission Indians  
Goldie Walker, Chairperson  
P.O. Box 343  
Patton CA 92369  
(909) 528-9027

Serrano

Morongo Band of Mission Indians  
Robert Martin, Chairperson  
12700 Pumarra Road  
Banning CA 92220  
(951) 849-8807  
(951) 922-8146 Fax

Cahuilla  
Serrano

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed: Eucalyptus East, San Bernardino County,

October 24, 2018

**Andrew Salas, Chairperson  
Gabrieleno Band of Mission Indians-Kizh Nation  
P.O. Box 393  
Covina, CA 91723**



**RE: Proposed Ontario Ranch Commerce Center Project, City of Ontario; Ontario and Prado Dam  
USGS Quadrangle, San Bernardino County, California.**

**Greetings,**

This Project proposes to convert multiple parcels of land into new warehouse facilities in the City of Ontario, San Bernardino County, California (see attached map). Material Culture Consulting, Inc (MCC) is conducting the cultural resources review of the project to support preparation of the environmental documents. As part of our background research, we would like to request your input on potential cultural resources within the project area. This request is not part of any formal local, state, or federal consultation process.

Our firm contacted the Native American Heritage Commission (NAHC) on July 19, 2018 to request review of the Sacred Lands File and for a list of tribes with traditional lands and/or cultural places within the area. The NAHC responded on July 25, 2018, stating that the Sacred Lands File review resulted in negative results, and provided your contact information as part of the list. We understand that negative results do not preclude the existence of cultural resources, and that a tribe may be the only source of information regarding the existence of a tribal cultural resource, which is why we are contacting you.

**Project Location and Description**

The proposed project is located at the northwest corner of the intersection of Eucalyptus Avenue and S. Grove Avenue, bounded by Eucalyptus Avenue to the north, S. Grove Avenue to the east, Bon View Avenue to the west, and Merrill Avenue to the south (see attached map). The area of potential impact (API) includes a total of approximately 126.8 acres and located within Section 19 of Township 2 South and Range 7 West (San Bernardino Base Meridian).

Please respond at your earliest convenience if you wish to share any knowledge of cultural resources within or adjacent to the API. Any information, concerns, or recommendations regarding cultural resources within the API can be shared with me via telephone, email, or via standard mail. Thank you very much for your assistance.

Kindest regards,

A handwritten signature in black ink, appearing to read "Tria Belcourt", is written over a faint, light-colored background.

Tria Belcourt, M.A., RPA  
President and Principal Archaeologist  
626-205-8279  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)



Map of Proposed Eucalyptus East Project, as depicted on Ontario and Prado Dam USGS 7.5-minute Quadrangle.



**Fwd: Ontario Ranch Commerce Center Project**

**Tria Belcourt** <tria@materialcultureconsulting.com>  
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Thu, Nov 1, 2018 at 10:18 AM

Please see below from Jessica. Thanks!

Tria Belcourt, M.A., RPA # 917250  
President and Principal Archaeologist

**Material Culture Consulting, Inc.**  
Certified DBE/WBE/SBE

2701-B North Towne Avenue  
Pomona CA, 91767  
Phone: 626-205-8279  
Fax: 626-249-0479

[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)

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From: **Tria Belcourt** <tria@materialcultureconsulting.com>  
Date: Thu, Nov 1, 2018 at 10:17 AM  
Subject: Re: Ontario Ranch Commerce Center Project  
To: Jessica Mauck <JMauck@sanmanuel-nsn.gov>

Thank you for your response. Hope you are doing well!

Tria Belcourt, M.A., RPA # 917250  
President and Principal Archaeologist

**Material Culture Consulting, Inc.**  
Certified DBE/WBE/SBE

2701-B North Towne Avenue  
Pomona CA, 91767  
Phone: 626-205-8279  
Fax: 626-249-0479

[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)

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On Thu, Nov 1, 2018 at 10:16 AM Jessica Mauck <JMauck@sanmanuel-nsn.gov> wrote:

Hi Tria,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on 31 October 2018. The proposed project is located outside of Serrano ancestral territory and, as such, SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates.

Regards,

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination or copying of this communication is strictly prohibited. If you have received this electronic transmission in error, please delete it from your system without copying it and notify the sender by reply e-mail so that the email address record can be corrected. Thank You

**Jessica Mauck**  
CULTURAL RESOURCES ANALYST  
O: (909) 864-8933 x3249  
M: (909) 725-9054  
26569 Community Center Drive Highland California 92346





**MORONGO BAND OF MISSION INDIANS**  
**TRIBAL HISTORIC PRESERVATION OFFICE**  
12700 PUMARRA RD BANNING, CA 92220  
OFFICE 951-755-5259 FAX 951-572-6004

Date: 11/2/2018

Re:  
Ontario Ranch Commerce Center

Dear,  
Tria Belcourt  
President and Principal Archaeologist  
Material Culture Consulting

Thank you for contacting the Morongo Band of Mission Indians (MBMI) Cultural Heritage Department regarding the above referenced project(s). After conducting a preliminary review of the project, the tribe would like to respectfully issue the following comments and/or requests:

- The project is located within the Tribe's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. In order to further evaluate the project for potential impacts to tribal cultural resources, we would like to formally request the following:
  - A thorough records search be conducted by contacting one of the California Historical Resources Information System (CHRIS) Archaeological Information Centers and a copy of the search results be provided to the tribe.
  - Tribal monitor participation during the initial pedestrian field survey of the Phase I Study of the project and a copy of the results of that study. In the event the pedestrian survey has already been conducted, MBMI requests a copy of the Phase I study be provided to the tribe as soon as it can be made available.

Please include this response in your report to your client.

Sincerely,

Travis Armstrong  
Tribal Historic Preservation Officer  
Morongo Band of Mission Indians  
Email: [tpho@morongo-nsn.gov](mailto:tpho@morongo-nsn.gov)  
Phone: (951) 755-5259



**Fwd: Proposed Ontario Ranch Commerce Center Project**

1 message

Tria Belcourt &lt;tria@materialcultureconsulting.com&gt;

Wed, Nov 7, 2018 at 2:46 PM

To: Sonia Sifuentes &lt;sonia@materialcultureconsulting.com&gt;, Allison Hill &lt;allison@materialcultureconsulting.com&gt;, Julia Carvajal &lt;julia@materialcultureconsulting.com&gt;

Please see below. Thank you,

Tria Belcourt, M.A., RPA # 917250  
President and Principal ArchaeologistMaterial Culture Consulting, Inc.  
Certified DBE/WBE/SBE2701-B North Towne Avenue  
Pomona CA, 91767  
Phone: 626-205-8279  
Fax: 626-249-0479[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)

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From: Tria Belcourt &lt;tria@materialcultureconsulting.com&gt;

Date: Wed, Nov 7, 2018 at 2:45 PM

Subject: Re: Proposed Ontario Ranch Commerce Center Project

To: Padilla, Lacy (TRBL) &lt;lpadilla@aguacaliente.net&gt;

Greetings Ms. Padilla,

Thank you for your reply! We will make sure to note this in our report.

Kindest regards,

Tria Belcourt, M.A., RPA # 917250  
President and Principal ArchaeologistMaterial Culture Consulting, Inc.  
Certified DBE/WBE/SBE2701-B North Towne Avenue  
Pomona CA, 91767  
Phone: 626-205-8279  
Fax: 626-249-0479[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)

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On Wed, Nov 7, 2018 at 2:31 PM Padilla, Lacy (TRBL) &lt;lpadilla@aguacaliente.net&gt; wrote:

Greetings,

A records check of the Tribal Historic preservation office's cultural registry revealed that this project is not located within the Tribe's Traditional Use Area. Therefore, we defer to the other tribes in the area. This letter shall conclude our consultation efforts.

Thank you,

**Lacy Padilla**

Archaeological Technician

Agua Caliente Band of Cahuilla Indians

5401 Dinah Shore Drive

Palm Springs, CA 92264

760-699-6956 Of ice  
760-333-5222 Cell

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**CEQA Outreach Follow Up, Proposed Ontario Ranch/Eucalyptus East Commerce Center Project, City of Ontario; Ontario and Prado Dam USGS Quadrangle, San Bernardino County**

5 messages

**Sonia Sifuentes** <sonia@materialcultureconsulting.com>

Mon, Nov 12, 2018 at 12:02 PM

 To: Tria Belcourt <info@materialcultureconsulting.com>  
 Bcc: Administration Gabrieleno Indians <admin@gabrielenoindians.org>, GTTribalcouncil@aol.com, sgoad@gabrielino-tongva.com, ddyocum@comcast.net

Good afternoon,

Material Culture Consulting, Inc (MCC) is attempting a follow-up on our letter (dated October 24, 2018) regarding the proposed Ontario Ranch Commerce Center Project, located in the City of Ontario, San Bernardino County, to verify you received the letter and if you had a chance to review the Project Area. Additionally, MCC informs you that the Project is now known as Eucalyptus East.

Please respond at your earliest convenience if you wish to share any knowledge of cultural resources within or adjacent to the API. Any information, concerns, or recommendations regarding cultural resources within the Project Area can be shared with us via telephone, email, or via standard mail. Thank you very much for your assistance.

Sincerely,

—  
 Sonia Sifuentes, M.Sc., RPA  
 Archaeologist  
 Material Culture Consulting, Inc.  
 2701-B North Towne Avenue  
 Pomona CA, 91767  
 Cell: 909-730-8829  
[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)

**Administration Gabrieleno Indians** <admin@gabrielenoindians.org>  
 To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Wed, Nov 14, 2018 at 12:45 PM

Hello Sonia

Is there a way you can resend the letter? Please let us know.  
 Thank you

Sincerely,

Brandy Salas  
 Admin Specialist  
 Gabrieleno Band of Mission Indians - Kizh Nation  
 PO Box 393  
 Covina, CA 91723  
 Office: 844-390-0787  
 website: [www.gabrielenoindians.org](http://www.gabrielenoindians.org)



[Quoted text hidden]

**Sonia Sifuentes** <sonia@materialcultureconsulting.com>

Wed, Nov 14, 2018 at 12:56 PM

 To: Administration Gabrieleno Indians <admin@gabrielenoindians.org>  
 Cc: Tria Belcourt <info@materialcultureconsulting.com>

Hello Brandy Salas,

Here is the digital copy of the letter we sent out (dated Oct 24th). Please respond at your earliest convenience if there is any information, concerns, or recommendations the Tribe wishes to share with us. Thank you for your assistance.

Sincerely,

Sonia  
 [Quoted text hidden]

**NAHC\_Letter\_EucalyptusEast\_OntarioRanch\_GabrielenoKizh.pdf**  
 689K

**Administration Gabrieleno Indians** <admin@gabrielenoindians.org>  
 To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fri, Nov 16, 2018 at 11:49 AM

Thank you  
 Sincerely,  
 Admin Specialist  
 Gabrieleno Band of Mission Indians - Kizh Nation  
 PO Box 393  
 Covina, CA 91723  
 Office: 844-390-0787  
 website: [www.gabrielenoindians.org](http://www.gabrielenoindians.org)



[Quoted text hidden]

**Administration Gabrieleno Indians** <admin@gabrielenoindians.org>  
 To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fri, Nov 16, 2018 at 12:03 PM

Hello Sonia,

If there will be any ground disturbance taking place regarding the project our tribal government would like to consult with your agency.  
 Thank you

Sincerely,

Brandy Salas  
 Admin Specialist  
 Gabrieleno Band of Mission Indians - Kizh Nation  
 PO Box 393  
 Covina, CA 91723  
 Office: 844-390-0787  
 website: [www.gabrielenoindians.org](http://www.gabrielenoindians.org)





11/16/2018

Material Culture Consulting Mail - CEQA Outreach Follow Up, Proposed Ontario Ranch/Eucalyptus East Commerce Center Project, City...

[Quoted text hidden]

**Fwd: Ontario Ranch Commerce Center Project**

1 message

Tria Belcourt <tria@materialcultureconsulting.com>  
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fri, Nov 16, 2018 at 10:47 AM

Tria Belcourt, M.A., RPA  
President

Material Culture Consulting, Inc.  
2701-B North Towne Avenue  
Pomona, California 91767  
626.205.8279  
[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)

----- Forwarded message -----

From: **Sarah Bliss** <sbliss@spotlight29.com>  
Date: Fri, Nov 16, 2018, 10:43 AM  
Subject: Ontario Ranch Commerce Center Project  
To: [tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com) <tria@materialcultureconsulting.com>  
Cc: TNP Consultation <TNPConsultation@29palmsbomi-nsn.gov>

Good Morning,

For the Ontario Ranch Commerce Center Project, the Twenty-Nine Palms Band of Mission Indians Tribal Historic Preservation Office (THPO) is not aware of any additional archaeological/cultural resources that pertain to the Twenty-Nine Palms Band of Mission Indians. If there are any findings during the cultural resource investigation, please have the Lead Agency send the completed cultural report to the THPO. After evaluation of the completed cultural report, the THPO will send additional recommendations. If you have any questions, please do not hesitate to contact the Tribal Historic Preservation Office at (760) 775-3259 or by email: [TNPConsultation@29palmsbomi-nsn.gov](mailto:TNPConsultation@29palmsbomi-nsn.gov).

Thank you,

**Sarah Bliss**

Twenty-Nine Palms Band of Mission Indians

*Cultural Resources Manager*

46-200 Harrison Place, Coachella, CA 92236

Ofc: (760) 863-2489

Cell: (760) 702-0679

E-mail: [sbliss@29palmsbomi-nsn.gov](mailto:sbliss@29palmsbomi-nsn.gov)<https://www.29palmstribes.org/historic-preservation>

Description: cid:image001.png@01D20D9D.FA633D40

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**2 attachments**image001.png  
19Kimage001.png  
19K

Appendix D:  
Paleontological  
Records Search

Natural History Museum  
of Los Angeles County  
900 Exposition Boulevard  
Los Angeles, CA 90007

tel 213.763.DINO  
www.nhm.org



Vertebrate Paleontology Section  
Telephone: (213) 763-3325

e-mail: [smcleod@nhm.org](mailto:smcleod@nhm.org)

12 October 2018

Material Culture Consulting  
2701-B North Towne Avenue  
Pomona, CA 91767

Attn: Allison Hill, Archaeologist

re: Paleontological resources for the proposed Eucalyptus East Project, in the City of Ontario, San Bernardino County, project area

Dear Allison:

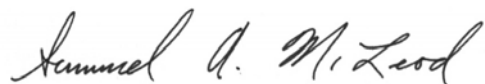
I have conducted a thorough check of our paleontology collection records for the locality and specimen data for the proposed Eucalyptus East Project, in the City of Ontario, San Bernardino County, project area as outlined on the portion of the Prado Dam USGS topographic quadrangle map that you sent to me via e-mail on 2 October 2018. We do not have any vertebrate fossil localities that lie within the proposed project area boundaries, but we do have localities nearby from sedimentary deposits similar to those that occur at depth in the proposed project area.

The entire proposed project area has surface deposits that consist of younger Quaternary Alluvium, derived broadly as alluvial fan deposits from the San Bernardino Mountains to the north. These deposits typically do not contain significant vertebrate fossils in the uppermost layers, but at relatively shallow depth there are probably older Quaternary deposits that may well contain significant vertebrate fossils. Our closest fossil vertebrate locality from similar older Quaternary deposits is LACM 7811, just south of due east of the proposed project area west of Mira Loma east of Archibald Avenue along Sumner Road north of Cloverdale Road, that produced a fossil specimen of whipsnake, *Masticophis*, at a depth of 9 to 11 feet below the surface. Further to the south-southeast of the proposed project area, on the northwestern side of Corona west of Cota Street between Railroad Street and Harrington Street, our vertebrate fossil locality LACM 1207 produced a fossil specimen of deer, *Odocoileus*.

Shallow excavations in the younger Quaternary Alluvium exposed throughout the proposed project area are unlikely to uncover significant fossil vertebrate remains. Deeper excavations there that extend down into the older Quaternary sediments, however, may well encounter significant vertebrate fossils. Any substantial excavations in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains while not impeding development. Sediment samples should also be collected from the finer-grained deposits in the proposed project area and processed to determine their small fossil potential. Any fossils collected should be placed in an accredited scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

A handwritten signature in cursive script that reads "Samuel A. McLeod". The signature is written in black ink and is positioned below the word "Sincerely,".

Samuel A. McLeod, Ph.D.  
Vertebrate Paleontology

enclosure: invoice

Eucalyptus East Project  
 CEQA Due Diligence Native American Contact Log  
 March 2020  
 Page 1 of 7

Name/Affiliation	Date and Method of 1st Contact	Date of 1 <sup>st</sup> Follow Up Attempt	Date of 2 <sup>nd</sup> Follow-Up Attempt	2020 Project Update Letter	Results	MCC Response
Anthony Morales, Chairperson Gabrieleno/Tongva San Gabriel Band of Mission Indians	October 24, 2018- letter sent via USPS	November 12, 2018- via email	November 27, 2018 via phone call; no answer / voicemail left.	January 30, 2020-letter sent via USPS	Received a call back from Anthony Morales on 11/28/18. Mr. Morales requests that the Gabrieleno / Tongva San Gabriel Band of Mission Indians be included in any monitoring activity should it take place. Mr. Morales mentioned that the Project area is known to have had Gabrieleno village sites, that the area could have been used as a trade route to the Inland Empire and that there may be concrete or mortar-lined water conveyance features.	MCC thanked the Gabrieleno / Tongva San Gabriel Band of Mission Indians for their response.
Sandonne Goad, Chairperson Gabrieleno/Tongva Nation	October 24, 2018- letter sent via USPS	November 12, 2018- via email	November 27, 2018 via phone call- message left	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required
Donna Yocum, Chairperson San Fernando Band of Mission Indians	November 02, 2018- letter sent via USPS	November 12, 2018- via email	November 27, 2018 via phone call- message left	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required

Eucalyptus East Project  
 CEQA Due Diligence Native American Contact Log  
 March 2020  
 Page 2 of 7

<b>Name/ Affiliation</b>	<b>Date and Method of 1st Contact</b>	<b>Date of 1<sup>st</sup> Follow Up Attempt</b>	<b>Date of 2<sup>nd</sup> Follow-Up Attempt</b>	<b>2020 Project Update Letter</b>	<b>Results</b>	<b>MCC Response</b>
Goldie Walker, Chairperson Serrano Nation of Mission Indians	October 24, 2018- letter sent via USPS	November 12, 2018- via phone	November 27, 2018 via phone call- number cannot be complete d as dial error	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required
Andrew Salas, Chairperson Gabrieleno Band of Mission Indians- Kizh Nation	October 24, 2018- letter sent via USPS	November 12, 2018-via email	Not necessary	January 30, 2020-letter sent via USPS	Email received on November 16, 2018 from Brandy Salas, Admin Specialist- Tribe stated that if ground disturbance takes place regarding the Project, their tribal government would like to consult with the agency.	MCC thanked the Gabrieleno Band of Mission Indians – Kizh Nation for their response.
Joseph Hamilton, Chairperson Ramona Band of Cahuilla	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Charles F. Wood, Chairperson Chemehuevi Indian Tribe	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Lynn Valbuena San Manuel Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	See below response	MCC thanked SMBMI for their response.

Name/ Affiliation	Date and Method of 1st Contact	Date of 1 <sup>st</sup> Follow Up Attempt	Date of 2 <sup>nd</sup> Follow-Up Attempt	2020 Project Update Letter	Results	MCC Response
Lee Clauss, Director CRM Dept. San Manuel Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	<p>Email from Jessica Mauck, Cultural Resources Analyst for SMBMI received on November 1, 2018- The proposed project is located outside of Serrano ancestral territory and as such SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates.</p> <p>On February 5, 2020- Email received by Alexandra McCleary, Tribal Archaeologist, in response to 2020 Project Update: The proposed project is located outside of Serrano ancestral territory and as such SMBMI will not be requesting consulting party status</p>	MCC thanked SMBMI for their response.



Eucalyptus East Project  
 CEQA Due Diligence Native American Contact Log  
 March 2020  
 Page 4 of 7

<b>Name/ Affiliation</b>	<b>Date and Method of 1st Contact</b>	<b>Date of 1<sup>st</sup> Follow Up Attempt</b>	<b>Date of 2<sup>nd</sup> Follow-Up Attempt</b>	<b>2020 Project Update Letter</b>	<b>Results</b>	<b>MCC Response</b>
Timothy Williams, Chairperson Fort Mojave Indian Tribe	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Robert Robinson, Chairperson	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Mark Macarro, Chairperson Pechanga Band of Luiseno Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Joseph Ontiveros, Cultural Resource Dept. Soboba Band of Luiseno Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Danelle Gutierrez, THPO Big Pine Paiute Tribe of the Owens Valley	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Genevieve Jones, Chairperson Big Pine Paiute Tribe of the Owens Valley	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Jeff Grubbe, Chairperson Agua Caliente Band of Cahuilla Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary

Eucalyptus East Project  
 CEQA Due Diligence Native American Contact Log  
 March 2020  
 Page 5 of 7

Name/ Affiliation	Date and Method of 1st Contact	Date of 1 <sup>st</sup> Follow Up Attempt	Date of 2 <sup>nd</sup> Follow-Up Attempt	2020 Project Update Letter	Results	MCC Response
Patricia Garcia-Plotkin, Director/THPO Agua Caliente Band of Cahuilla Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	Not necessary	Email from Lacy Padilla, Archaeological Technician for ACBCI received on November 7, 2018- THPO's cultural registry revealed that the Project is not located within the Tribe's Traditional Use Area. ACBCI defers to other tribes in the area.	MCC thanked the tribe for their response.
Darrell Mike, Chairperson Twenty-Nine Palms Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	Not necessary	Email received on November 16, 2018 from Sarah Bliss, Cultural Resource Manager-Tribal Historic Preservation Officer (THPO) is not aware of any additional archaeological/cultural resources. Requests that should any cultural findings occur during the cultural investigation to have the Lead Agency send the completed cultural report to THPO.	MCC thanked the Twenty-Nine Palms Band of Mission Indians
Anthony Madrigal, Jr. THPO Twenty-Nine Palms Band of Mission Indians	October 24, 2018- letter sent via USPS	Not Necessary	Not necessary	Not necessary	See response above	MCC thanked the Twenty-Nine Palms Band of Mission Indians

Name/ Affiliation	Date and Method of 1st Contact	Date of 1 <sup>st</sup> Follow Up Attempt	Date of 2 <sup>nd</sup> Follow-Up Attempt	2020 Project Update Letter	Results	MCC Response
Robert Martin, Chairperson Morongo Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	Email containing letter from Travis Armstrong, Tribal Historic Preservation Officer for MBMI, received on November 2, 2018: Project is located within the Tribe’s aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. MBMI requests a through records search be conducted via CHRIS and a copy of the search results be provided to the tribe; and a tribal monitor participate during the initial pedestrian field survey of the Phase I Study of the Project with copy of results of the study provided. If the pedestrian survey has already been conducted, MBMI requests a copy of the Phase I study be provided to the tribe as soon as it is made available.	MCC thanked the Morongo Band of Mission Indians for their response.

Name/ Affiliation	Date and Method of 1st Contact	Date of 1 <sup>st</sup> Follow Up Attempt	Date of 2 <sup>nd</sup> Follow-Up Attempt	2020 Project Update Letter	Results	MCC Response
Denisa Torres, Cultural Resources Manager Morongo Band of Mission Indians	November 02, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	See Response above	None required

January 30, 2020

EXAMPLE

**RE: Update for the Proposed Eucalyptus East Project, City of Ontario; Prado Dam USGS Quadrangle, San Bernardino County, California.**



**Greetings,**

Material Culture Consulting, Inc. (MCC) previously contacted you in 2018 and 2019, regarding the Eucalyptus East Project. This Project proposes the construction of new warehouse facilities on 140 acres of land located on the north/east intersection of Bon View Ave and Merrill Ave in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc (MCC) conducted the initial cultural resources review of the project to support preparation of the environmental documents. As part of this review, our firm contacted the Native American Heritage Commission (NAHC) and was provided your contact information. Outreach for this project was not part of any formal local, state, or federal consultation process.

The initial cultural resources assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a search of the Sacred Lands File by the NAHC, outreach efforts with Native American tribal representatives, a pedestrian survey, and a literature review. MCC found that the project area had been consistently utilized for agricultural and dairy activities since the 1930s. No archaeological resources were identified during survey of the Project Area. A total of seven historic structures, including George Borba & Sons Dairy, were identified within the Project Area, which were evaluated by a qualified architectural historian and determined to be ineligible for listing on the National Register of Historic Places or California Register of Historical Resources. Based on our findings, MCC recommended that the probability of encountering significant cultural resources within the Project Area is considered low. MCC recommends no further mitigation measures prior to implementation of the Project. While we did not recommend additional mitigation prior to construction, we did recommend including a condition of approval or mitigation measure which addresses inadvertent discoveries of cultural materials and/or human remains, should these be encountered during any projects within the Specific Plan Area.

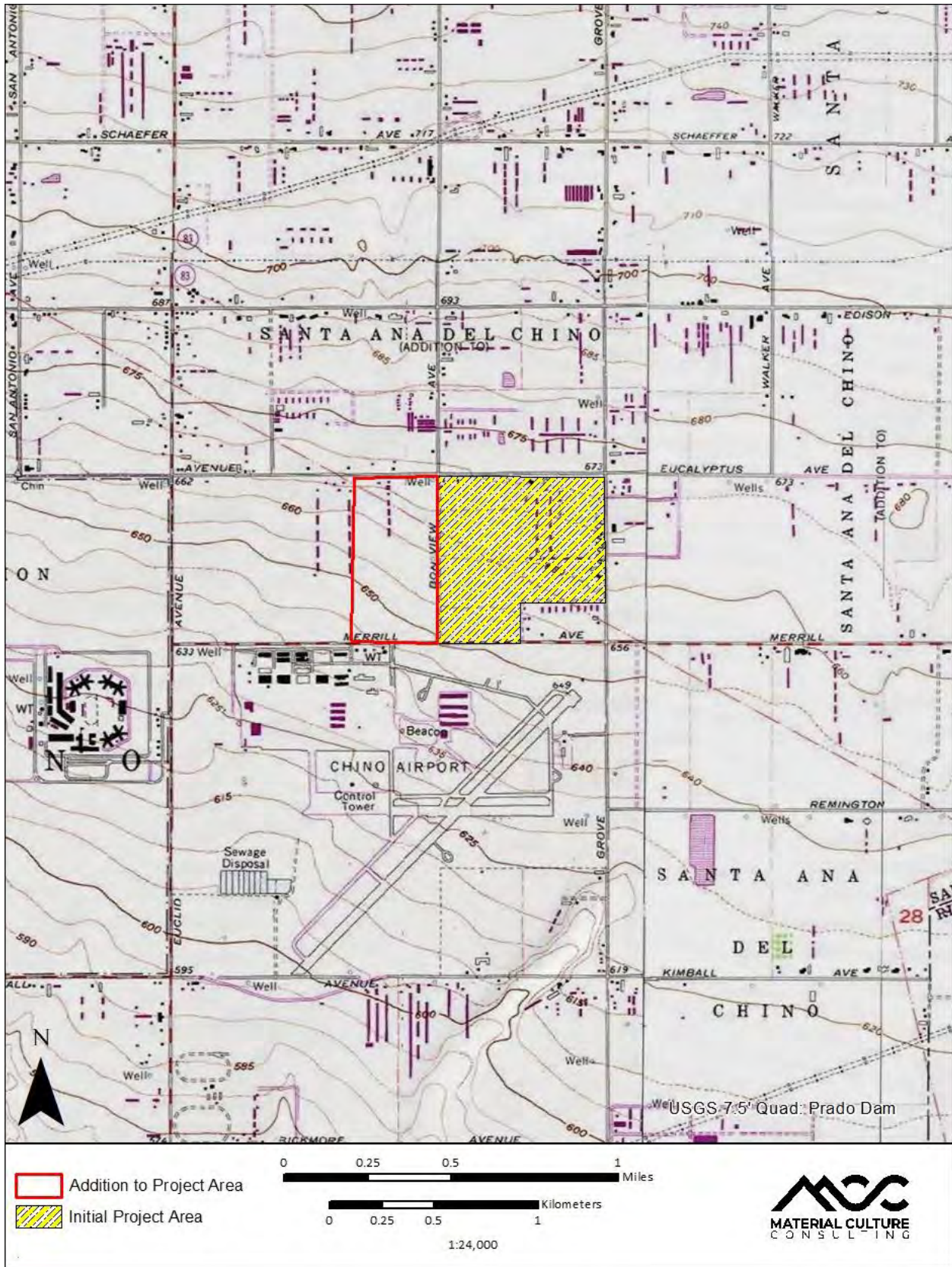
MCC is contacting you to inform you that the footprint for this project has been expanded to include an adjoining 80 acres located at the north/west intersection of Bon View Ave and Merrill Ave (See attached map). The Project area now includes a total of approximately 220 acres located within Section 19 of Township 2 South and Range 7 West (San Bernardino Base Meridian). If you wish to share additional information with us, to include in the revised assessment, we invite you to contact us vial email, letter, or phone. MCC will be conducting a supplemental assessment of this expanded Project Area. The City of Ontario remains the lead agency for this Project if you wish to seek formal consultation.

Thank you very much for your time.

Kindest regards,

A handwritten signature in black ink, appearing to read "Tria Belcourt", is written over a light blue horizontal line.

Tria Belcourt, M.A., RPA  
President and Principal Archaeologist  
626-205-8279  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)



Map of Proposed Eucalyptus East Project, as depicted on Prado Dam USGS 7.5-minute Quadrangle.

**Fwd: Proposed Eucalyptus East Project Update**

1 message

Tria Belcourt &lt;tria@materialcultureconsulting.com&gt;

Wed, Feb 5, 2020 at 1:55 PM

To: Julia Carvajal &lt;julia@materialcultureconsulting.com&gt;, Sonia Sifuentes &lt;sonia@materialcultureconsulting.com&gt;

Tria Belcourt, M.A., RPA # 917250  
President and Principal Archaeologist

Material Culture Consulting, Inc.  
Certified DBE/WBE/SBE

2701-B North Towne Avenue  
Pomona CA, 91767  
Phone: 626-205-8279  
Fax: 626-249-0479

[www.materialcultureconsulting.com](http://www.materialcultureconsulting.com)  
[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)

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----- Forwarded message -----

From: **Alexandra McCleary** <[Alexandra.McCleary@sanmanuel-nsn.gov](mailto:Alexandra.McCleary@sanmanuel-nsn.gov)>  
Date: Wed, Feb 5, 2020 at 1:38 PM  
Subject: Proposed Eucalyptus East Project Update  
To: Tria Belcourt <[tria@materialcultureconsulting.com](mailto:tria@materialcultureconsulting.com)>

Dear Tria,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above-referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by the Cultural Resources Management Department on February 3, 2020. The proposed project is located outside of Serrano ancestral territory and, as such, SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to legal and regulatory mandates.

Kind regards,

Alexandra McCleary

**Alexandra McCleary**

TRIBAL ARCHAEOLOGIST  
O: (909) 864-8933 x502023  
M: (909) 633-0054  
[26569 Community Center Drive Highland CA 92346](http://26569CommunityCenterDriveHighlandCA92346)



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Appendix E:  
DPR Forms for George  
Borba & Sons Dairy



**PRIMARY RECORD**

Primary #  
HRI #  
Trinomial  
NRHP Status Code: 6Z

Other Listings  
Review Code                      Reviewer                      Date

Page 1 of 30

\*Resource Name: George Borba & Son Dairy

**P1. Other Identifier:** APN 1054-081-03-0000,1054-091-01-0000,1054-091-02-0000,1054-071-01-0000,1054-071-02-0000,1054-101-01-0000,1054-101-02-0000,1054-241-01-0000,1054-241-02-0000,1054-231-01-0000,1054-231-02-0000,1054-311-01-0000,1054-341-02-0000.

\*P2. Location:  Not for Publication     Unrestricted  
and

\*a. County: San Bernardino

\*b. USGS 7.5' Quad: Prado Dam                      Date: 1981    T 2S; R 7W; N.E. ¼ ; Section 20 S.B.B.M.

c. Address: 7955 Eucalyptus Avenue    City: Chino                      Zip: 91710

d. UTM: See Location Map for UTM coordinates

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

The 130.4 acre dairy farm is situated at the southeast corner of Bon View Avenue and Eucalyptus Avenue.

**\*P3a. Description:**

Per information from the San Bernardino County Assessor's Office, the George Borba & Son Dairy was established at this location in 1963. Aerial photographs from 1938, 1959, 1966 and 2002 present a visual history of a small collection of houses and barn were the only built-environment resources on the land in 1938, and how the Borba Dairy property expanded the size of their operations. (See Continuation Sheets for historic aerial photographs.) George Borba & Son Dairy would expand his holdings with the purchase of the 16-acre Boersma Dairy property in 1993, leaving the Haranga ranch as the only acreage not owned by the Borbas in the quarter section. When Borba established his dairy, there were three, small worker cottages and a utility barn located at the corner of Eucalyptus Avenue and Bon View Avenue, of his property.

**Borba Main House:** The house was constructed in 1963 as a modern interpretation of Ranch style architecture with modest reference to the Eichler and Cliff May Homes that had been presented to the public in the early 1950s. Eichler and Cliff May shared the design aspects of using a post-and-beam structure with board-and-batten siding, and emphasized access to outdoor terraces (Hess, Alan. *The Ranch House*. New York: Harry N. Abrams, Inc.; 2004.)

The 4,868 square foot, one-story home was designed using a compound plan of center block comprised of a low-pitch, gable-roofed rectangular mass with wide overhanging eaves, arranged with two wings of rectangular-massed block with low-pitched gable roofs set on each side of center block at 45° in a northerly direction. The roof of the main block is set on a north-south axis, while the two wings are set at a northeast-southwest, and northwest-southeast axis. The house may have been designed to take advantage of the views provided by the San Gabriel Mountains to the east. (See Continuation Sheet for additional text.)

\*P3b. Resource Attributes: HP33 (Farm/ranch), HP32 (Rural open space), HP3 (Multiple family property), HP4 (Ancillary buildings).

\*P4. Resources Present:     Building     Structure     Object     Site     District     Element of District     Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo:  
Main dairy barn and milking parlor, front (north) and east elevations, view looking southwest.

\*P6. Date Constructed/Age and

Sources:  Historic

Prehistoric     Both

Dairy barn/milking parlor constructed in 1963. San Bernardino County Assessor.

\*P7. Owner and Address:

George Borba & Son Dairy  
7955 Eucalyptus Avenue  
Chino, CA 91710

\*P8. Recorded by:

Pamela Daly, M.S.H.P.  
Daly & Associates  
2242 El Capitan Drive  
Riverside, CA 92506

\*P9. Date Recorded:

June 14, 2019

\*P10. Survey Type:

City of Ontario/CEQA

\*P11. Report Citation: None.

\*Attachments:  NONE     Location Map     Sketch Map     Continuation Sheet     Building, Structure, and Object Record  
 Archaeological Record     District Record     Linear Feature Record     Milling Station Record     Rock Art Record  
 Artifact Record     Photograph Record     Other (List):

**BUILDING, STRUCTURE, AND OBJECT RECORD**

\*Resource Name: **George Borba & Son Dairy**

B1. Historic Name: George Borba & Son Dairy

B2. Common Name: Borba Dairy

B3. Original Use: Dairy farm

B4. Present Use: Dairy farm

\*B5. **Architectural Style:** Ranch style 1960-1980

\*B6. **Construction History:** George Borba Sr. moved onto the land in 1963. Already existing on his land were worker cottages and a utility barn at the southeast corner of Bon View Ave. and Eucalyptus Ave. Borba Sr. built dairy associated structures and a managers house on his land. In 1993, he purchased the Harry Boersma house and dairy at 14746 South Grove Ave.. The worker cottages were demolished in 1988, and four new, single family dwellings were erected in the same location.

\*B7. **Moved?** No Yes Unknown **Date:** **Original Location:**

\*B8. **Related Features:**

Utilitarian dairy farm features that include: pole structures, out buildings, garages, utility sheds, feed bins, cooling tanks, water tanks, and runoff pits.

B9a. Architect: Unknown

b. Builder: Unknown

\*B10. **Significance:** None **Theme:** New Model Colony Area (Ontario, CA)

**Area:** San Bernardino County

**Period of Significance:** None

**Property Type:** Large Capacity Dairy Farm

**Applicable Criteria:** Ontario/CR

The following text is excerpted from *The City of Ontario's Historic Context for the New Model Colony Area*, prepared by Galvin & Associates for the City of Ontario Planning Department in September 2004.

In 1967, the County of San Bernardino designated 14,000 acres of agricultural land in the Chino Valley, located in the southwest area of San Bernardino County, an agricultural preserve. This agricultural land, which has been protected by Williamson Act contracts and the 1965 Land Conservation Act, has been farmed primarily by Dutch, French Basque and Portuguese dairy farmers for the last 50 years.

In the 1990s, as dairy operation costs escalated and the demand for housing in the region swelled, development pressures mounted and the process of incorporating this area into adjacent cities began. Anticipating the expiration of the Williamson Act contracts, this area was divided and portions were incorporated into three adjacent cities. In 1999, 8,200 acres were annexed by the City of Ontario; in 2003, 5,000 acres were annexed by the City of Chino, referred to as the Preserve; and the City of Chino Hills annexed the remaining few hundred acres of land.

The City of Ontario named their portion of the former San Bernardino County Agricultural Preserve the *New Model Colony* (NMC) after the original *Model Colony of Ontario* established by the Chaffey Brothers, William and George Jr., in 1882. Over time, the New Model Colony area has been known as Santa Ana Del Chino, the Chino Valley, the Chino Basin, and the San Bernardino Agricultural Preserve or Ag Preserve. It consists of an expansive area of flat arid land that was historically sandy desert. In 2004, the NMC survey area included 711 parcels of predominately open agricultural land scattered with single-family homes and farm buildings. (See Continuation Sheet for additional text.)

B11. Additional Resource Attributes:

\*B12. **References:** noted in text.

B13. Remarks:

See Continuation sheets for aerial views of the property.

\*B14. **Evaluator:** Pamela Daly, M.S.H.P.

\***Date of Evaluation:** June 14, 2019

(This space reserved for official comments.)

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update

**P3. Description, continued:**

**Borba Main House, continued:** The entire building maintains a linear pattern with an emphasis on a horizontal plan. The main block serves as the formal entrance to the house and four trapezoidal-shaped, fixed clerestory lights are set equally on the gable end, under the eaves. Under the band of clerestory lights, the front façade is divided into four sections, reflecting the narrow rafter tails extending from under the wide overhanging eave. A large pair of wood entrance doors, with fixed side lights, are situated to the west of the center of the façade. The entire façade to the west of the front doors is clad with a stucco finish over regularly set, narrow, vertical bands of wood that give the wall surface movement. The wall surface to the east of the front doors is also clad with the narrow, vertical banding, and large, wood-framed picture windows are set in each of the two eastern wall sections. Extending northward from the front façade, on both sides of the doors, are screen walls constructed with decorative breezeway block. The same breezeway block is used in the lower perimeter wall, approximately 36" to 48" high, which parallels the front elevation. The perimeter wall on the west is topped with metal fencing as an additional deterrent to trespassing.

The two wings of the house are clad with a stucco finish, have aluminum window fenestration, and are virtually devoid of ornamentation. The eastern wing of the house contains the attached garage, which is entered on the south elevation, and the kitchen and dining room areas of the house. The bedrooms are located in the west wing, and the center section is where the living room/family room is situated. The roof is clad with composite shingles, and the building has a poured concrete foundation. An inground pool was constructed in the backyard in 1973, and a concrete-block wall encircles the backyard area. A circular driveway curves from Eucalyptus Avenue to the front entrance, and the area around the house is nicely landscaped with lawn, mature trees and shrubs.

The Contemporary Ranch style house associated with the George Borba & Son Dairy property meets the criteria to be considered a "1960s through 1980s Ranch" style house within the historic context of the New Model Colony. The Main House of the George Borba & Son Dairy reflects how, after World War II, the simple Ranch style homes of the 1920s evolved into sprawling homes with little association to their original roots derived from the houses found on the historic ranchos in California. The Main House of George Borba & Son Dairy meets, but does not rise above being a modest example, of a 1960s Contemporary Ranch style house that was widely constructed in California during the same time period. "Some thought that the Contemporary style afforded opportunities to build at a lower cost. In particular, very low-pitch or flat roofs, relatively open floor plans, and the use of post-and-beam rather than stud construction were characteristics of many Contemporary style houses that builders touted as cost-saving innovations (California Department of Transportation. "Tract Housing in California, 1945-1973: A Context for National Register Evaluation"; Sacramento: 2011.)

Plan books published as early as 1945 by companies such as Industrial Publications, Inc., Chicago, Illinois; The L.F. Garlinghouse Co., Topeka, Kansas; and Hiawatha Estates & Associates, Northridge, California, all had plans available for one-story, rambling styled homes with exterior features ranging from a rustic/ranch look - to that which would be considered a Modern exterior today. The design plans offered were all but unrecognizable in relation to the first "modern" Ranch style residence, the Gregory House, designed by California architect William Wurster in 1928. In 1946, architect Cliff May and Sunset Magazine collaborated to write and publish a book, *Sunset Western Ranch Houses* (Hess, 2004.) "The Magazine of Western Living consciously linked the Ranch House to Modernism (Hess, 2004.)

**Managers House, 8099 Eucalyptus Avenue (14544 Grove Avenue):** The house at the corner of Eucalyptus Avenue and Grove Avenue was constructed for the George Borba & Son Dairy in 1978, and enlarged in 1990. The house is one-story, cross-gable, rectangular-massed structure, comprised of 1,974 square feet of living space, and an attached garage. The exterior walls are clad in stucco, and the fenestration is provided by metal-frame sliding windows and modern-composite fixed windows. The house does not present any significant architectural features or characteristics that raise it above a common residential design that dates from the late 1970s.

(See Continuation sheets for additional text)

**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation  Update

**P3. Descriptions, continued:**

**Main Dairy Barn/Milking Parlor at 7955 Eucalyptus Ave.:** The Dairy Barn was constructed at the same time of the Main House in 1963. The exterior of the milk storage portion of the building is clad in a stucco finish and devoid of any superfluous ornamentation or architectural features. The Main Dairy Barn, comprised of both the milking parlor and sanitary milk storage facility, is a rectangular-massed building approximately 168 feet long (north-south) and 62 feet wide. The northern section of the building contains the sanitary milk storage facilities, and the automated milking parlor makes up the remainder of the building. The cows pass through the washing bays at the south end of the building before entering the milking parlor stalls, attached to stations and milking machinery. This part of the building is partially open sided, and covered with a corrugated metal roof. The roof is supported on angular, steel support beams set along the stucco-clad concrete walls that form the outside of the building. There is a stepped parapet wall at the roof line between the milking parlor and storage structure. The northern portion of the Dairy Barn has a medium pitch gable roof set on a north-south axis, and the exterior walls of this section are clad with a stucco finish. The west half of the storage facility is wider than the east side, and the roof slope extends over this additional room area, creating uneven roof slopes. A large, aluminum utility door is set in the center of the north (front) façade, and is flanked on both sides by aluminum sliding windows. A poured concrete, circular driveway with the dimensions to allow large tanker trucks access to the front of the building, provides egress from Eucalyptus Avenue.

**Auxilliary Dairy Barn at 7955 Eucalyptus Ave:** The Auxilliary Dairy Barn was constructed in 1978, when the decision was made to enlarge the size of the herd and milk production. This dairy barn is somewhat unique solely for the reason that it is situated on an east-west axis, instead of a north-south axis as usually seen for dairy barns. The exterior of the milk storage portion of the building is clad in a stucco finish and devoid of any superfluous ornamentation or architectural features. The Auxilliary Dairy Barn, comprised of both the milking parlor and sanitary milk storage facility, is a rectangular-massed building approximately 172 feet long (east-west). The milk parlor section is approximately 40 feet wide, and the storage storage section is 62 feet wide. The west section of the building contains the sanitary milk storage facilities, and the automated milking parlor makes up the remainder of the building. The cows pass through the washing bays at the east end of the building before entering the milking parlor stalls, attached to stations and milking machinery. This part of the building is partially open sided, and covered with a corrugated metal roof. The roof is supported on angular, steel support beams set along the stucco-clad concrete walls that form the outside of the building. The western portion of the Dairy Barn has a medium pitch gable roof set on a north-south axis, and the exterior walls of this section are clad with a stucco finish. The south half of the storage facility is wider than the east side, and the roof slope extends over this additional room area, creating uneven roof slopes. A pedestrian door is situated in line with the gable peak, and sliding, metal unit windows provide the fenestration on both sides of the pedestrian door. A poured concrete, circular driveway with the dimensions to allow large tanker trucks access to the front of the building, provides egress from Eucalyptus Avenue.

**Feed (dry and wet) sorting structures:** There are two large, rectangular-massed, dry feed sorting structures situated to the southwest of the Main House, in the western area of the dairy farm. One feed sorter structure is open to the west, and measures approximately 162 feet long and 52 feet wide. The second dry feed sorter is open to the east, and measures approximately 92 feet long and 34 feet wide. Each structure has a concrete foundation, a shed roof, and is enclosed on three sides. The larger feed sorter has seven bays, with the bay walls topped by plywood panels. A wet-feed structure is located to the immediate northwest of the dry feed sheds, and it has a two bay, poured concrete lined pit, where raw vegetables and excess produce can be dumped and then accessed by bucket loaders for depositing into feed troughs in the pens.

**Cattle shade pole structures:** Cattle covers have shed roofs that are supported by a system of steel poles, with a shed having a roof height ranging between approximately 10 feet tall to 18 feet tall. The sheds roofs are approximately 16 feet to 22 feet in width, and range from 30 feet to almost 1,000 feet long. There are approximately sixteen pole structures situated within the cattle pens on all the Borba property used for providing shelter from sun and inclement weather to the dairy cows, and these provide over 1.25-linear miles of cattle sheds. The acreage covered by the shades and the gable roof cover is approximately 4 acres.

(See Continuation Sheet for additional text.)

**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

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**P3. Description, continued:**

**Hay cover pole structures:** There are multiple pole structures with shed roofs located in a north-south line between the Borba Main and Auxiliary Dairy Barns, and in an east-west line to the southwest of the Boersma Dairy Barn. These pole structures are similar in construction to the cattle shade structures.

**Cattle pens:** The cattle pens were designed using feedlot fencing around a large section of land, with the large pens divided into various sized pens that can hold from just a few cows to more than 100. The tubular steel fencing is embedded in concrete footing and a concrete apron and/or concrete trough extends away from the fencing on the outside of the pen to allow an area for the feed to be laid out for each pen.

**Manure pits:** There is a dry manure capture structure situated south of the Managers House, parallel to Grove Avenue. This structure may actually date from before George Borba built his dairy. In the most southern portion of the dairy property, near Merrill Avenue, there are two sections of land that are dug to a depth of approximately 8' to be filled with the liquid runoff from the cattle pens. On a routine basis, the pits are drained to be recycled as liquid fertilizer.

**Water pumping systems and equipment:** A farm the size of Borba's 130+acres required multiple water pumping systems to supply all of the farms needs. Pumping equipment would be comprised of electrically-powered jet pumps used to raise water from underground resources.

**Single-family residences at 7721, 7735, 7745 Eucalyptus Ave.:** According to the demolition and building permits filed in San Bernardino County, the three houses that were located at the southeast corner of Eucalyptus Avenue and Bon View Avenue were demolished in 1988, and a permit to build four new single-family houses of 1,075 square feet each, was submitted that same year. The older houses had dated from circa 1915, and were associated with the gable roof barn that still stands just south of the houses, on Bon View Avenue.

**Old Barn:** Research failed to produce any information regarding the construction date of this barn that may date from the 1920s, or 1930s. It appears to be in its original location, which was near three small worker cottages located at the southeast corner of Bon View Avenue and Eucalyptus Avenue. (The original cottages, that according to San Bernardino County Assessor records, dated from 1915 and 1925, were demolished in 1988 and replaced with four new single family dwellings in the same location.) Aerial photographs dating from 1936 do not show any agricultural buildings and structures within an entire quarter-section of the barn that can provide information as to who the barn belonged to, or what its exact purpose was originally. The barn is comprised of a gable roof structure that measures approximately 66 feet lone (east-west) by 45 feet wide, and is 20 feet high at its peak. The barn appears to have been used for general farm use, and based upon the vent features in the gable ridge and lack of window openings, for the storage of equipment, supplies, and/or temporary harvest space. The building is clad entirely with corrugated steel panels on its walls and roof. There is a set of tall hanging doors on the west (front) façade of the barn. A tall pole, shade structure with concrete pad, is situated to the immediate north of the barn. This structure may have been used to cover tractors or other motor vehicles. The barn has lost its association with its historic context, and aspects of integrity of feeling, setting, and design (its original purpose is unknown).

**Boersma House, 14746 South Grove Ave.:** According to building permits records from San Bernardino County, the house was constructed in 1960 as a modest example of Ranch style architecture from the 1950s and 1960s. The one-story home has a low-pitch gable roof with wide overhanging eaves and exposed rafter tails. The roof is set on a north-south axis, and the rectangular main body of the house is approximately 62 feet long by 42 feet wide. The garage is attached to the main block, but set back (to the west) approximately 18 feet from being in alignment with the house's front façade. At the south end of the house, there is a room projection from the building that creates a cross gable extension. The formal entrance to the house is in an unusual location, as it is set between the recessed façade of the garage, next to the north façade of the main block, and the front door has sidelights of glass block. (It is unknown if this was the original design or a later alteration.) Based on the style of windows in the dairy barn, which was constructed at the same time as the house, all of the house's original fenestration has been removed and replaced with modern composite window units. The house is clad with a stucco finish, except for a false water table row of wide clapboards creating a decorative element to the house. The element of wide clapboards is repeated in the north gable end of the house. (See Continuation Sheet for additional text.)

**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

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**P3. Description, continued:**

**Boersma House, continued:**

The Ranch style house constructed by Harry Boersma, and now owned by the George Borba and Son Dairy, meets the criteria to be considered a “1960s through 1980s Ranch” style house within the historic context of the New Model Colony. While the house meets the architectural description to be considered a “1960s through 1980s Ranch” style house associated with dairy farms in Ontario, California, it also meets the architectural characteristics of a Ranch style house that was constructed during the same time period anywhere in California, or the United States. From the publication written by the Cultural Studies Office of Caltrans Division of Environmental Analysis, “Tract Housing in California, 1945-1973: A Context for National Register Evaluation; 2011”, the characteristics of a Ranch House are those houses that are “one-story and exhibit a predominant horizontality”.

Plan books published as early as 1945 by companies such as Industrial Publications, Inc., Chicago, Illinois; The L.F. Garlinghouse Co., Topeka, Kansas; and Hiawatha Estes & Associates, Northridge, California, all had plans available for one-story, rambling styled homes with exterior features ranging from a rustic/ranch look - to that which would be considered a Modern exterior today. The design plans offered were all but unrecognizable in relation to the first “modern” Ranch style residence, the Gregory House, designed by architect William Wurster in 1928.

**Boersma Dairy Barn/Milking Parlor:** The Dairy Barn was constructed at the same time of the Boersma House in 1960, and was designed to reflect the modest architectural details and design of the house. The Dairy Barn is a rectangular-massed building approximately 153 feet long (east-west) and 42 feet wide, and eastern portion of the building facing South Grove Avenue is where the formal front pedestrian entrance and sanitary milk storage units are located. This eastern portion of the building is covered with a gable roof system, with an added shed roof slope running across the façade to create a false gable-on-hip roof system. There are rafter tails that extend from under the roof eaves, and these, in association with diamond frames on the windows, are the sole decorative features of the front elevation. The milking parlor of the building has solid, concrete masonry walls approximately 6 feet tall, and these walls support the steel support poles and beams that support the roof system. The parlor portion of the building is covered with a corrugated metal roof that has a vent system along the gable ridge. The west end of the building is where the cows enter and exit the milking parlor.

**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

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**B10. Statement of Significance, continued:**

During the Rancho Period in the history of Southern California, large land grants were given to influential citizens leading to European settlement of ranchos for raising cattle in the San Bernardino Valley. The Rancho period lasted from 1834 until the Mexican War of 1846. Colonists were encouraged to settle in the San Bernardino Valley to help protect the region from such raids. Recipients of the land grants included Spanish gentlemen (dons) from many of the first families of California, such as the Lugos, Sepulvedas, Yorbas, Bandinis, Tapias, Palomares, and Picos.

One of the largest land grants in the area was Rancho Santa Ana del Chino, which encompassed the New Model Colony project study area. In 1841, the Spanish governor Alvarado granted the 22,000-acre Rancho Santa Ana del Chino to his uncle, Antonio Maria Lugo.

Located on a sloping plateau at the base of the 10,000-foot Mt. San Antonio, the City of Ontario, California, was named for Ontario, Canada by George Chaffey, a Canadian-born engineer who came to Riverside in 1880. He and his brother William acquired 1000 acres of the Garcia Rancho in 1881 which they intended to subdivide into small fruit farms. The Chaffey's purchased an additional 6,000 acres that would become the cities of Ontario and Upland. One of the keys to the Chaffey's success as developers was their creation of a "mutual water company" in which each landowner became a stockholder. Ontario was incorporated on December 10, 1891.

Chino's beginning can be traced to Isaac William's Rancho Santa Ana del Chino, known for its cattle and fine horses, its sugar beet factory, its dairy farms, and its truck farms in the early days. After Williams died the Chino Ranch suffered difficult times until the ranch and some additional lands were purchased by Richard Gird in 1881. Gird imported dairy cattle and built up a herd of 200 milk cows, which was the start of Chino's more recent role as a dairy center of Southern California. In 1887 he subdivided half the ranch and set aside the town site of Chino.

The first herds of good cows to reach California were those led or driven across the plains by the gold-seekers of 1849. The cows were fed or grazed along the trail and contributed to the family menu on the way. These cows were the foundation stock of pioneer dairy efforts in the foothills and mountain valleys of the Sierra Nevada. During the late 1840s and early 1850s, Sacramento was the center of California's cattle market. It was during this period that dairying became an established industry in California.

The scientist, Louis Pasteur, discovered in 1865 that heating milk to 140 degrees Fahrenheit for 20 minutes would destroy germs of tuberculosis, typhoid fever and other pathogenic organisms. Due to his discovery, the milk manufacturing industry began to develop in other areas related to the dairy industry such as supply machinery and equipment for milk pasteurizing plants, coolers, pasteurizers, bottling machines and a score of other products.

In the 1880s, dairying was largely confined to Humboldt County, Pt. Reyes Peninsula, the coastal section of San Luis Obispo and the mountain pastures of the Lake Tahoe region. In the early 1890s, the first farm separators (mechanical milk separators) were introduced into California.

There are three distinct phases in dairy farming in Southern California. The first phase was from 1900-1930 and consisted of free grazing of the cattle. The first dairies before 1930s were small family concerns, consisting of five or six acres. During the 1920s, the dairies gravitated to the southeastern part of Los Angeles County around Paramount, Artesia, and Bellflower.

The second phase of dairying, from 1931-1949 saw a change from free grazing dairying to dry-lot dairying with the mechanization of milking. Prior to World War II, dairies were widely dispersed throughout Los Angeles County. Large clusters of dairies were found in areas such as Torrance, Artesia, El Monte and the San Fernando Valley. During this period much of the feed and fodder was available from the local area, and dairies usually occupied the less valuable land that was not suited to citrus or truck farms raising vegetables for market.

The third phase of dairying in Southern California took place between 1950 and 1969. One of the paradoxes of the 1950s Los Angeles milk industry is that the rapidly growing human population and industry of Los Angeles County after the end of World War II, squeezed the dairymen into smaller and smaller areas, forcing the dairy industry to produce milk more economically than before the squeeze began. The dairy farmers moved to new dairies to take advantage of mechanization; their old barns were not large enough for the new machinery.

Dairies first came to the Chino Valley in the late 1890s, mostly on rented land. The Chino Valley was a good location for dairy farming because of its vast areas to cultivate hay and its sunshine, fertile soil, and water supply. In the late 1950s and early 1960s many housing developments began in Westminster and Cypress and dairymen started to buy farm land in the Chino Valley which had been used mostly for growing grapes. By 1957, more than 135 dairies were located in the Chino Valley area. (See additional text on Continuation Page)

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019 ■ Continuation

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**B10. Statement of Significance, continued:**

In moving to the Chino Valley area, the dairymen established the most efficient and modern dairies in the nation. By 1979, the largest concentration of dairies in the world was located in the approximately 18 square miles that comprise the Chino Valley. Sixty percent of the milk produced in the State of California was produced in this area.

Dairy farming in the Chino Valley, between 1950 and 1969, consisted of the introduction of scientific feeding and breeding, resulting in larger herds and more productive dairy operations. The dairy properties that developed during 1950-1969 are located on very large parcels or on properties that comprise multiple smaller parcels. The average size for a property associated with this context is approximately forty (40) acres or more. As the mechanization of dairying advanced, the size of the parcel increased as the dairy farmer was capable of milking more cattle. The layout of the dairy property also changed as the dairy operation began to introduce new farming equipment for the mechanization process.

With the technology of the new milking systems (of the 1950s-60s) one man easily could milk 450 cows twice a day. Machines could handle more cows, consequently, the herds increased in size again. Also, the dairy farmers from this period were able to afford more land after selling their dairies for premium prices in the highly valued inner-city areas of Los Angeles County, and could consequently increase the size of their operations and upgrade their milking facilities as the cost of land in the Chino Valley area was far less costly.

The George A Borba & Son Dairy operation is situated on 130+ acres, divided into 11 legal parcels, and is situated in the southeast corner of Bon View Avenue and Eucalyptus Avenue. The history and evaluation of the Borba & Son Dairy is based upon a review of historic aerial photographs dating from 1938 to 2002 that provide a view of buildings and structures on the parcels in the subject area; San Bernardino County building permit records from the 1960s for the subject parcels; historic newspaper articles; census information; and an interview with George Borba Sr.'s daughter, Linda Borba Gourdakian.

The George Borba & Son Dairy was established in Chino by George Antonio Borba, who had been born in Ontario, California, in 1932. George A. Borba was the fourth child of Pete Borba Sr. (given name Pedro Antonio Borba) and his wife Marie. Pete Borba had been born in 1895, and was 17 when he emigrated from the Azore Islands (an autonomous region of Portugal), and arrived in the United States in 1912. He followed the arrival of his brothers, Joa/Joe in 1900, John in 1903, and Emanuel in 1909. By 1920, he is married and living in the dairy community of Lemoore, in Kings County, California. At least two of his brothers have also settled in Lemoore, and a search of census lists suggest there were possibly more members of the extended family living in that area of California.

Pete, his wife Marie, and three children (Pete Jr., Joe, and John) moved to Southern California in time for the 1930 Census, and were living in the Cucamonga area of San Bernardino County. It then appears that Pete Sr. joins with brothers Emanuel and Joe, and moves to the Chino Valley dairy area. Pete Sr. is noted in City Directories as living on Edison Avenue, in Chino. Pete Sr. and Marie would have two additional children while living in Ontario-Chino, George Antonio, and Mary. George Antonio Borba, born in 1932, grew up working with his brothers for his father's successful potato farm, and on his Uncle Joe's dairy farm. During George's high school years, his name shows up frequently in local newspapers for his outstanding skills on the baseball field.

George married a high school classmate, Dolores Sartain in 1955, and they settled in the northern Chino (southern Ontario) area near his father's farm on Edison Avenue. It was in 1963 that George and Dolores established a dairy operation on three-quarters of the land bound by Bon View Avenue to the west; Eucalyptus Avenue to the north; Grove Avenue to the east; and Merrill Avenue to the south. (In 1963, the two, 16-acre parcels in the southeast quarter of the "block" were owned by Harry Boersma and Rudy Haringa.) When George purchased the land for his future house and dairy, there were three houses and one barn situated at the southeast corner of the intersection of Eucalyptus Avenue and Bon View Avenue, and there was a small house at the southwest corner of built the house and dairy farm at 7955 Eucalyptus Avenue.

The Borba Dairy was recognized for its gold medal winning milk, and Borba was able to expand his operations in the 1970s. He increased the size of his herd so much that in 1978, he built an additional dairy barn and a single-family residence to be used by the farm manager. The Boersma Dairy farm property became available in 1993, after Mr. Boersma passed away, and Borba now had over 130 acres of land and three dairy barns to keep over 3,000 head of milking cows. Besides the dairy operations, George Sr. (now that there was a George Jr.) was very active in the dairy community, local government and land use organizations, and even was a director of the newly established Chino Valley Bank. George A. Borba (Sr.) passed away in 2012, and his son has continued the family business in Chino/Ontario and in Kern County. (Sources: Ancestry.com for "George Antonio Borba". Resources include 1910, 1920, 1930 and 1940 U.S. Census records, World War II draft card for "George A. Borba", Immigration Record for Pete A. Borba, City Directories and Voter Registration Records.)  
(See Continuation Sheet for additional text.)



**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

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**B10 Statement of Significance, continued:**

In assessing the historical significance of the subject property, federal, state, and local significance criteria were applied. The subject property is not currently listed in either the National Register of Historic Places, California Register of Historical Resources, or as a City of Ontario Historic Landmark.

**National Register and California Register**

**Criteria A/1:** Pursuant to the National Register and/or California Register criterion relating to the Borba & Son Dairy Farm property's association with significant historical events that exemplify broad patterns of our history, the subject property does not qualify as a significant resource under Criteria A/1. While the history of the Borba & Son Dairy Farm with the development of the dairy industry in Chino Valley-Ontario is important, the Borba & Son Dairy was not specifically identified in our research as the site of an event important to the history of large-scale dairy farming in California, or the United States. There is no evidence that the Borba & Son Dairy Farm property is eligible for listing under National Register Criterion A or California Register Criterion 1.

**Criteria B/2:** Pursuant to National Register and California Register criteria relating to the Borba & Son Dairy's association with the lives of persons significant in our past, the property does not qualify as a significant resource under National Register Criterion B or California Register Criterion 2. This criterion is used to determine if George A. Borba Sr. is *directly* associated with the development and history of large-scale dairy farming in the mid-twentieth century, or if he was important in the settlement of Chino Valley or Ontario. While George A. Borba Sr. was very active in local, regional, and even statewide organizations associated with the dairy industry and related subjects, our research did not reveal that his activities were demonstrably important on a national or state level.

**Criteria C/3:** Pursuant to the National Register and California Register criteria relating to the distinctive characteristics of a type, period, region, or method of construction, the Borba & Son Dairy does not appear to be eligible for listing as a significant Large Capacity Dairy under National Register Criterion C or California Register Criterion 3. The Borba & Son Dairy Farm property is an example of a Large Capacity Dairy constructed in Ontario in 1963. The design of a Large Capacity Dairy had been developed over 50 years of both technical improvements in milking machinery and the handling of dairy cows. The Large Capacity Dairies were simply an expansion of the dairy operations built soon after World War II, which brought together the improved hygienics of milking operations with the use of mechanical milking parlors. Large-scale dairy farms had been established, constructed, and operated in Southern California and the Chino Valley Dairy region since the early 1950s, and Borba & Son Dairy was not found to be a pioneer of large-scale dairy management. Borba & Son Dairy built an operation whose success was insured by following the example of the layout and management of other regional farms and industry guidelines. The Borba & Son Dairy does not present any significant contributions to the history of Large Capacity Dairies that would warrant it being eligible for listing as a significant property under Criterion C/3.

**Evaluation of the Ranch style house of the Borba & Son Dairy Farm property per National Register and California Register Criteria**

The Main House of the Borba & Son Dairy has been found to meet the criteria to be considered a contributing resource, 1960s through 1980s Ranch style house, under the New Model Colony Historic Context. While the Main House of the Borba & Son Dairy meets the level of integrity to be considered a local resource, the building itself has not been found to meet the criteria to be listed in the National Register or California Register.

The Main House of Borba & Son Dairy has not been found to have been associated with events that have made a significant contribution to the broad pattern of dairy farm ranch houses, or to the cultural history of dairy farming, in Chino Valley-Ontario, California, or the United States.

The Main House of Borba & Son Dairy has not been found to have been directly associated with persons important to the dairy farm industry in Ontario, California, or the United States.

The Main House of Borba & Son Dairy does not present a Contemporary Ranch style residence of high artistic values, or a design that contributes to the national or regional discussion regarding Contemporary Ranch style houses constructed in 1963.

(See Continuation Sheet for additional text.)

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019 ■ Continuation

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**B10 Statement of Significance, continued:**

**City of Ontario Criteria**

The Borba & Son Dairy does present high integrity for a “Post 1950, Scientific, Large Capacity Dairy” farm constructed in 1963, for possessing the physical attributes of a large-scale dairy operation, but it does not appear to have the capacity to be determined a significant individual property as a contributor to the history of dairy farming in the City of Ontario.

Prior to 1950, the dairy farms in the Chino Valley area were primarily owned and operated by a single family, with some hired hands to supplement the family’s involvement. Even with the advent of modern milking equipment, improved feeding and animal husbandry, the dairy farms continued to resemble those of the early twentieth-century, with the cows able graze in pastures and the farms make a visual connection to the early days of settlement in Ontario and the Chino Valley.

After World War II, the pressure from urban development, high price of land, and loss of interest by the younger generations of dairy farmers, forced dairy farmers in the New Model Colony Area to adapt to the modern livestock business plan of operating, what is called in common terminology, a factory farm. The Borba & Son Dairy can accommodate approximately 3,000 head of cattle on the property, with approximately 1,500 head being milked on a daily basis due to the improvement of technology, and the three dairy barns located on the farm. A factory farm is considered:

“An operation is defined as an animal feeding operation, or AFO, if the facility confines, stables, or feeds animals for 45 days or more in a 12-month period, and a ground cover of vegetation is not sustained over at least 50 percent of the confinement area. An operation is defined as a concentrated animal feeding operation, or CAFO, if it meets the definition of an AFO and also confines more than 1,000 animal units (1,000 animal units is equal to 700 dairy cows). (United State Department of Agriculture (USDA) <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/plantsanimals/livestock/afo/>)

Criterion a.: Evaluating the property under the City of Ontario criteria for historic landmarks, the property of the Borba & Son Dairy has not been found to exemplify or reflect special elements of the City’s history. The “Post 1950, Scientific, Large Capacity Dairies” were identified in the “New Model Colony Historic Context” not for their contribution to the post World War II development of the City of Ontario, but rather that the advancements of dairy management and technology allowed for farmers to milk a greater number of cows in a 24-hour period. Farmers expanded the size of their cattle pens to hold more head of cattle, and that in turn allowed a dairy farmer to sell more milk. There may have been technological improvements which contributed to the amount of milk produced in Southern California, but we find no evidence that the activities of the Borba & Son Dairy operations presented any special elements to the City’s history.

Criterion b.: The Borba & Son Dairy has not been identified with persons or events significant in local, state, or national history. George A. Borba was very active in his community; both in civic and industry activities, but his contributions were not so substantial as to have demonstrably changed local history.

Criterion c.: The built-environment resources of the Borba & Son Dairy were not designed or organized by a notable builder, designer, architect, or dairy farm expert. These types of large-scale dairy operations were being constructed across California, and in many parts of the United States, since the end of World War II. Per the USDA, there are over 450,000 AFOs in the United States in 2017, of which dairy operations make up a large percentage of the total number.

Criterion d.: While the Borba & Son Dairy property has been noted as having high integrity as an example of a “Post 1950 Scientific, Large Capacity Dairy”, the buildings and structures of the Borba & Son Dairy Farm do not exhibit significantly important examples of building practices that would be important to the dairy industry dating from after 1963. The design of the dairy facility at Borba & Son Dairy had no impact on the future of architectural or agricultural development of dairy farms in Ontario or the Chino Valley in the last half of the twentieth-century.

Criterion e.: The buildings and structures of the Borba & Son Dairy do not exhibit noteworthy examples of the use of indigenous materials or craftsmanship.

(See Continuation Sheet for additional text.)

**CONTINUATION SHEET**

\*Recorded by: Pamela Daly, M.S.H.P.

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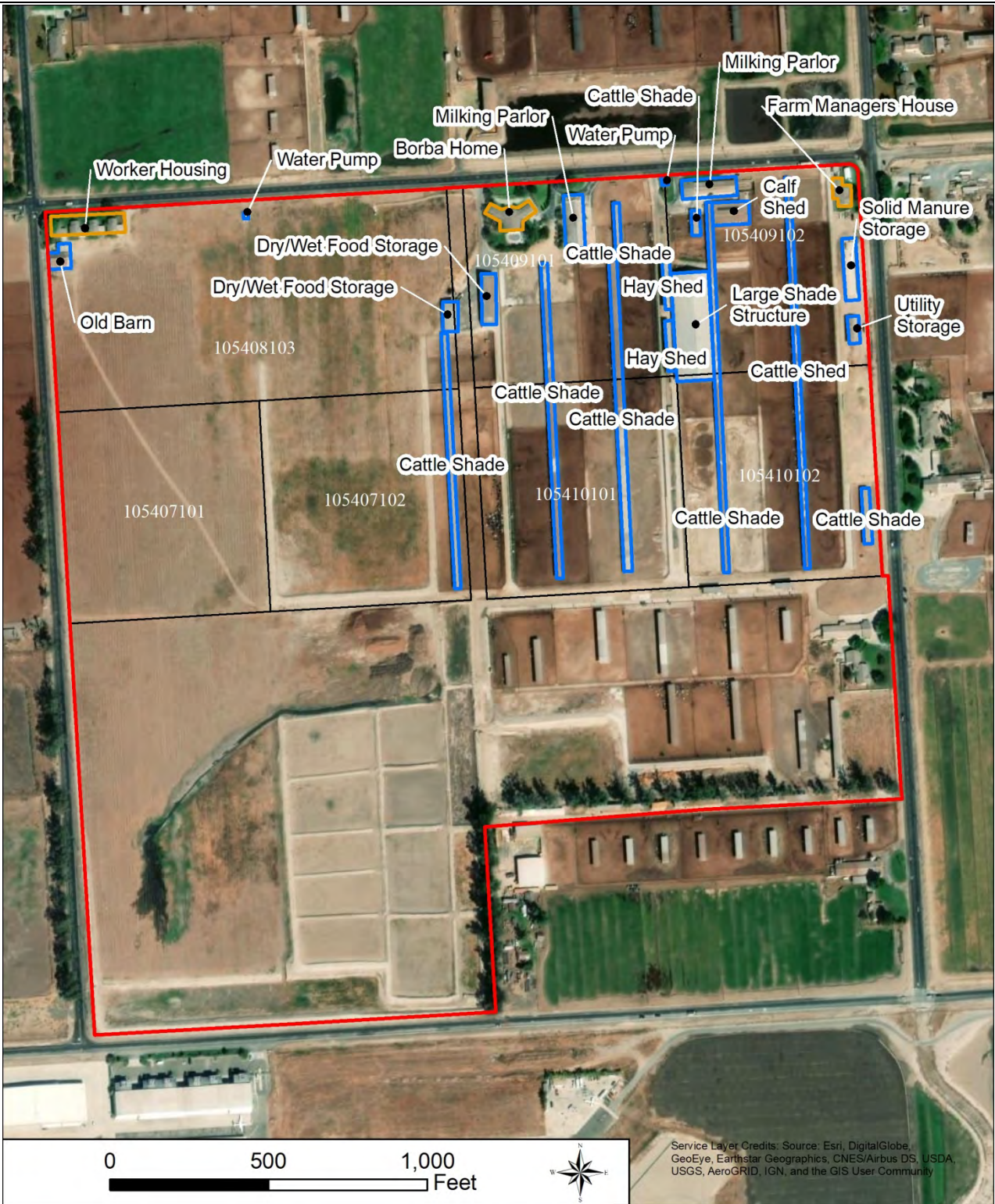
**B10 Statement of Significance, continued:**

Criterion f.: The Borba & Son Dairy property does not embody elements that represent significant dairy technology, or design of a factory farm, constructed in the 1960s. The Borba & Son Dairy Farm operation presents the type of large scale, dry lot, milking operation widely used across California where urban growth pushes against agrarian interests. (And why the Williamson Act was enacted to protect agricultural and open space land.)

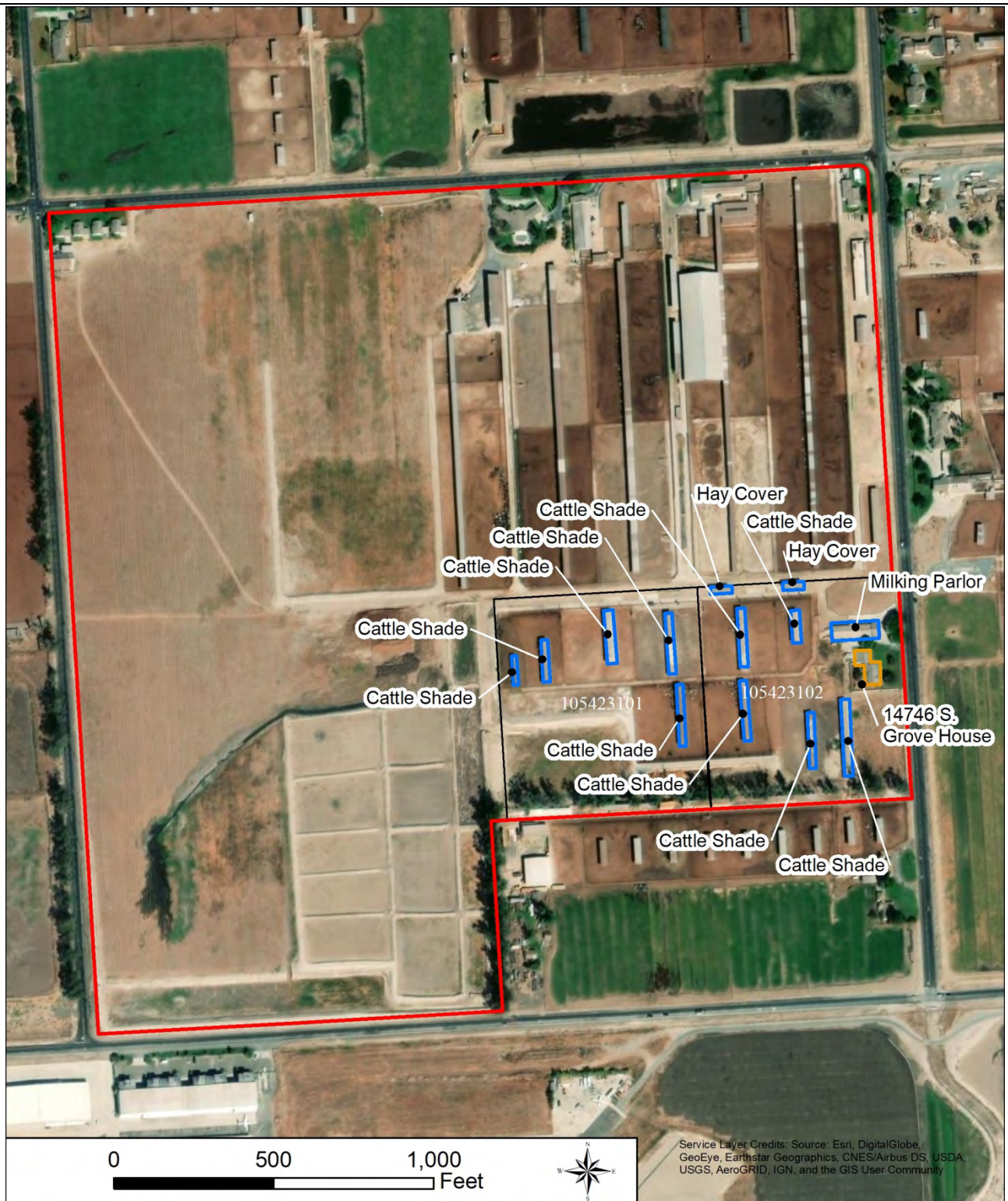
Criterion g.: The Main House and Dairy Barns of Borba & Son Dairy are not located in a unique location. The farm is just one of many dating from the 1960s that are still located in the Chino Valley-Ontario area.

Criterion h.: Large capacity dairies continue to operate across California. Many of the dairy farmers who are leaving the Chino Valley area are moving north to Tulare, Merced, and Kern Counties. They are constructing dairy operations that are based upon the same basic physical design, but are being outfitted with technologically advanced milking, animal husbandry, and herd control devices. The Borba & Son Dairy is not an important or significant example of a large capacity dairy, and its loss would not adversely affect the history of dairy operations in Ontario.

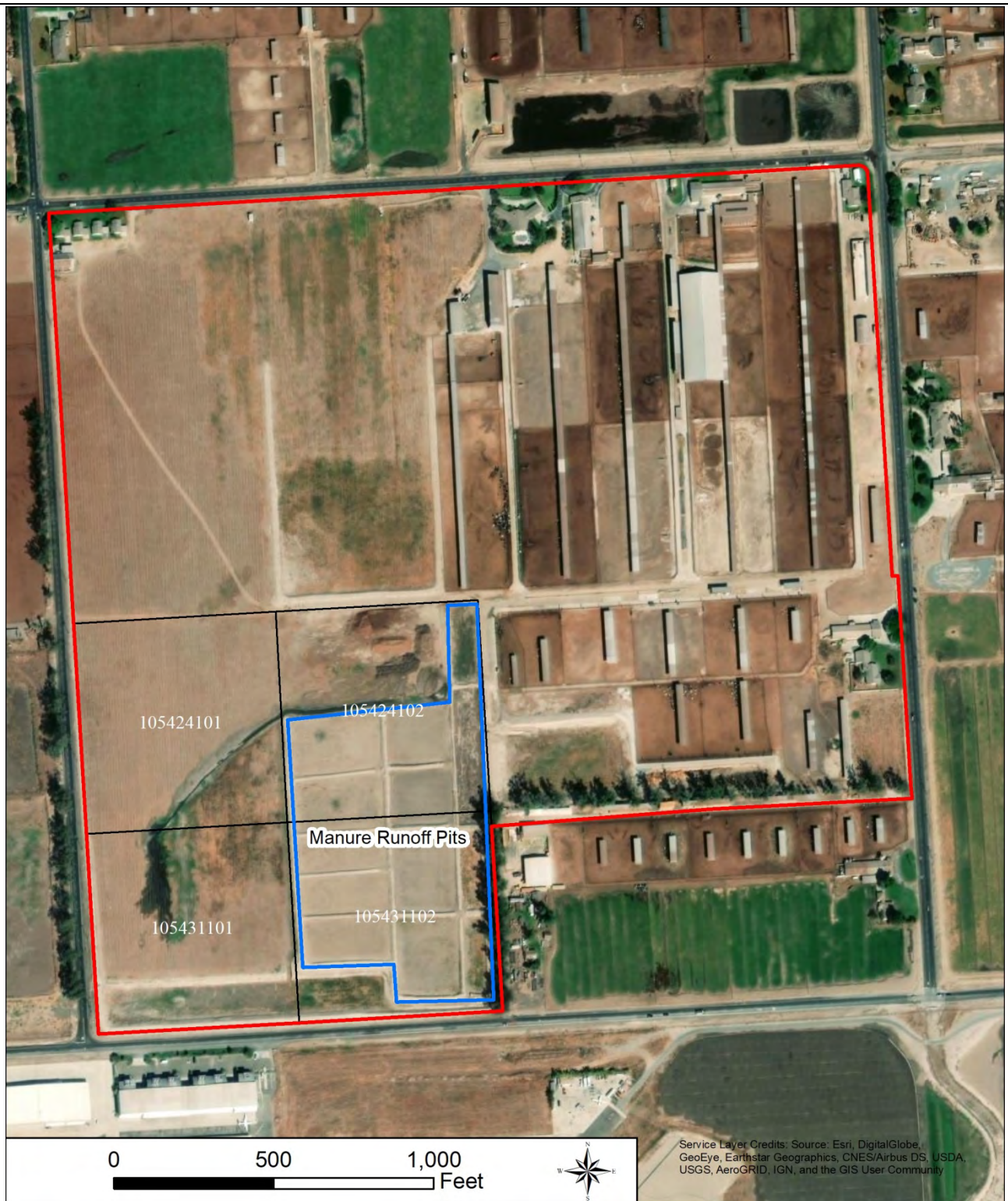
The Borba & Son Dairy property has not been identified as a contributing member of any identified Historic District of thematically related groupings of Large Capacity Dairy farms in the Model Colony Area.



Buildings and structures located on APNs: 1054-081-03-0000, 1054-071-01-0000, 1054-071-02-0000, 1054-091-01-0000, 1054-091-02-0000, 1054-101-01-0000, 1054-101-02-0000.



Buildings and structures located on APNs: 1054-231-01-0000, 1054-231-02. This was the Boersma Dairy Farm 1960-1993.



Buildings and structures located on APNs: 1054-241-01-0000, 1054-241-02-0000, 1054-311-01-0000, 1054-311-02-0000.

**CONTINUATION SHEET**

Primary #

HRI#

Trinomial

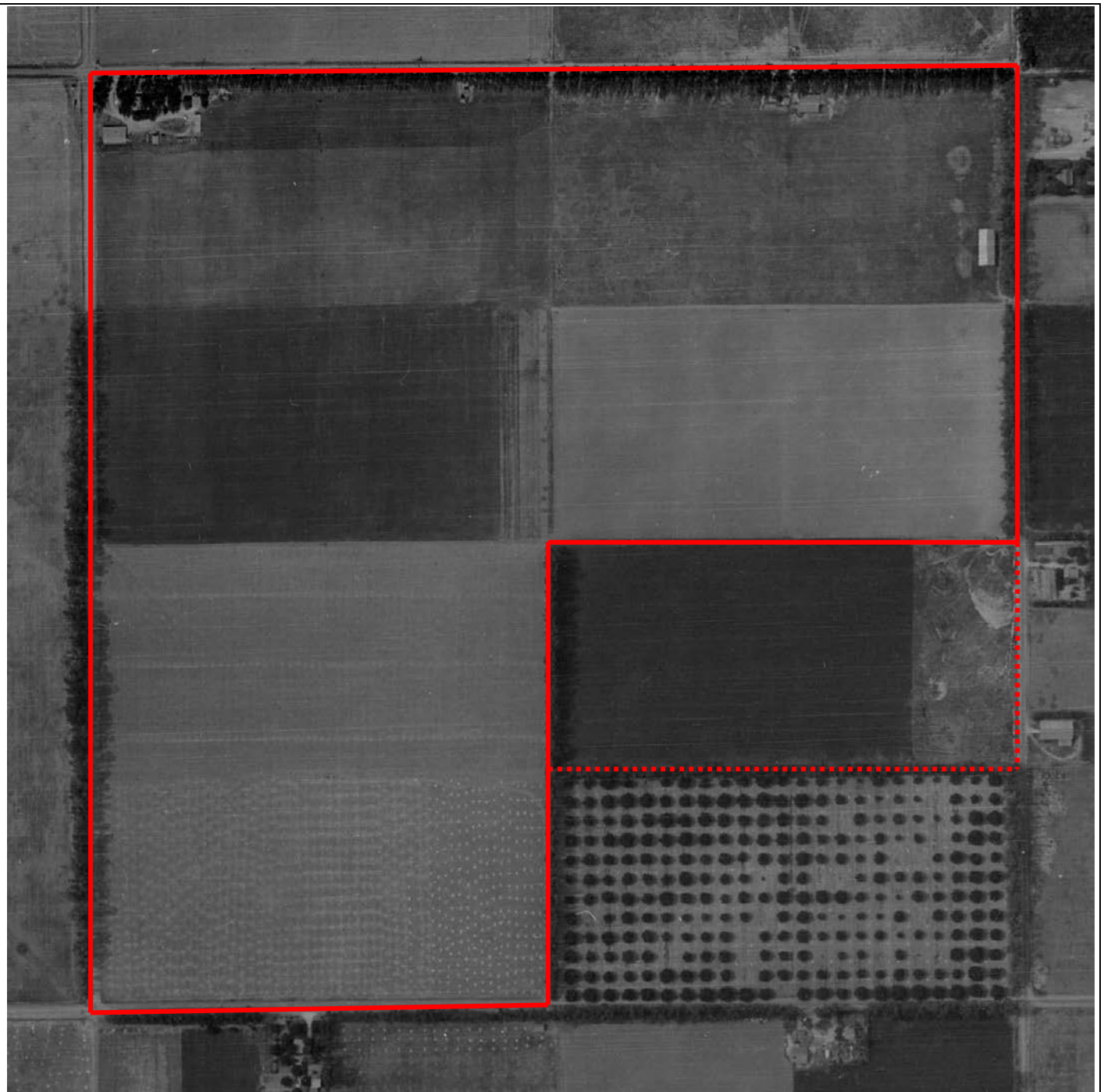
\*Resource Name: George Borba & Son Dairy Farm

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



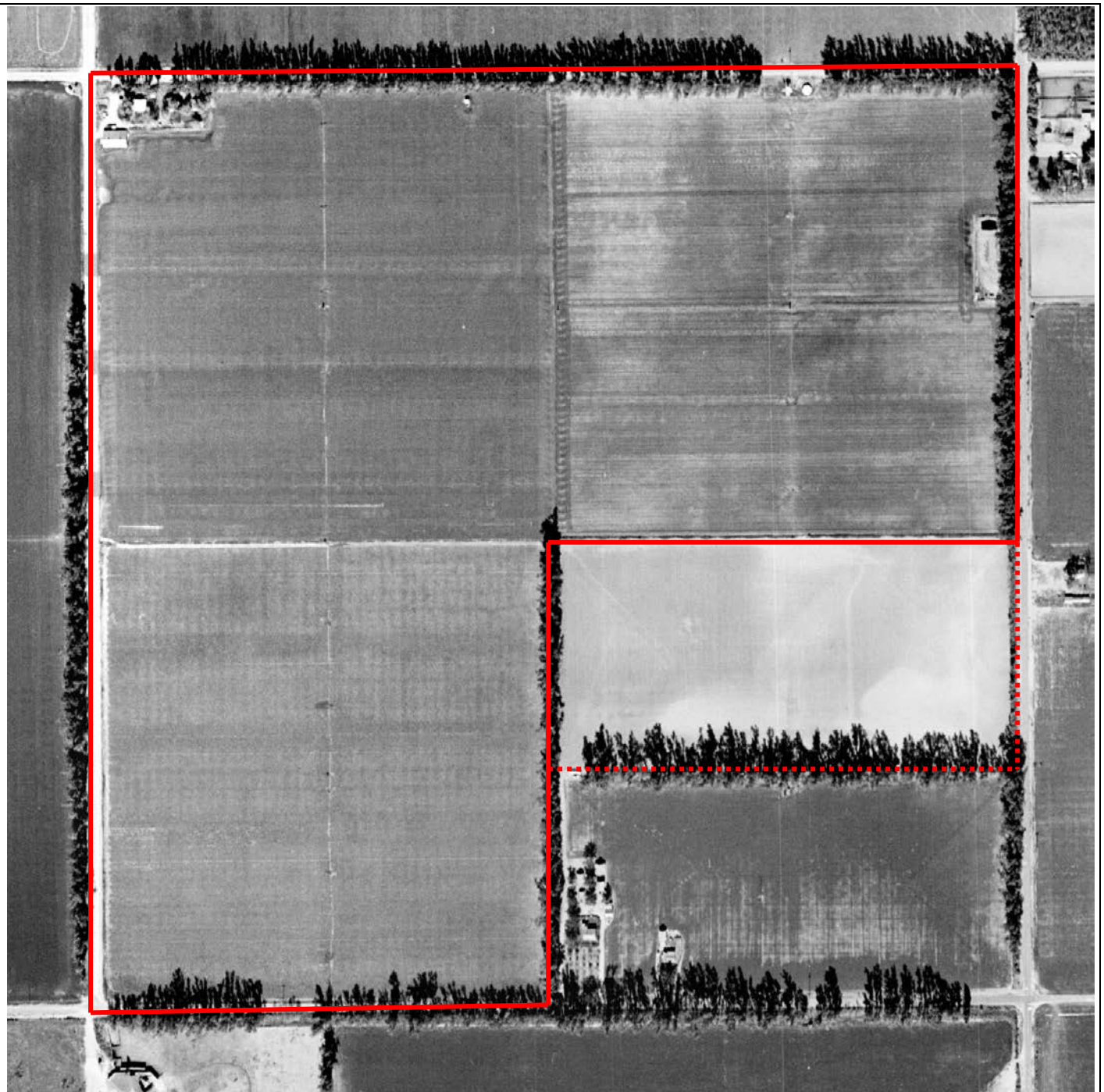
Aerial view in 1938 of what will be:  
Solid line: will be the George Borba & Son property in 1963  
Dotted line: will be the Harry Boersma property in 1960

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Aerial view in 1959 of what will be:  
the George Borba & Son property in 1963  
the Harry Boersma property in 1960

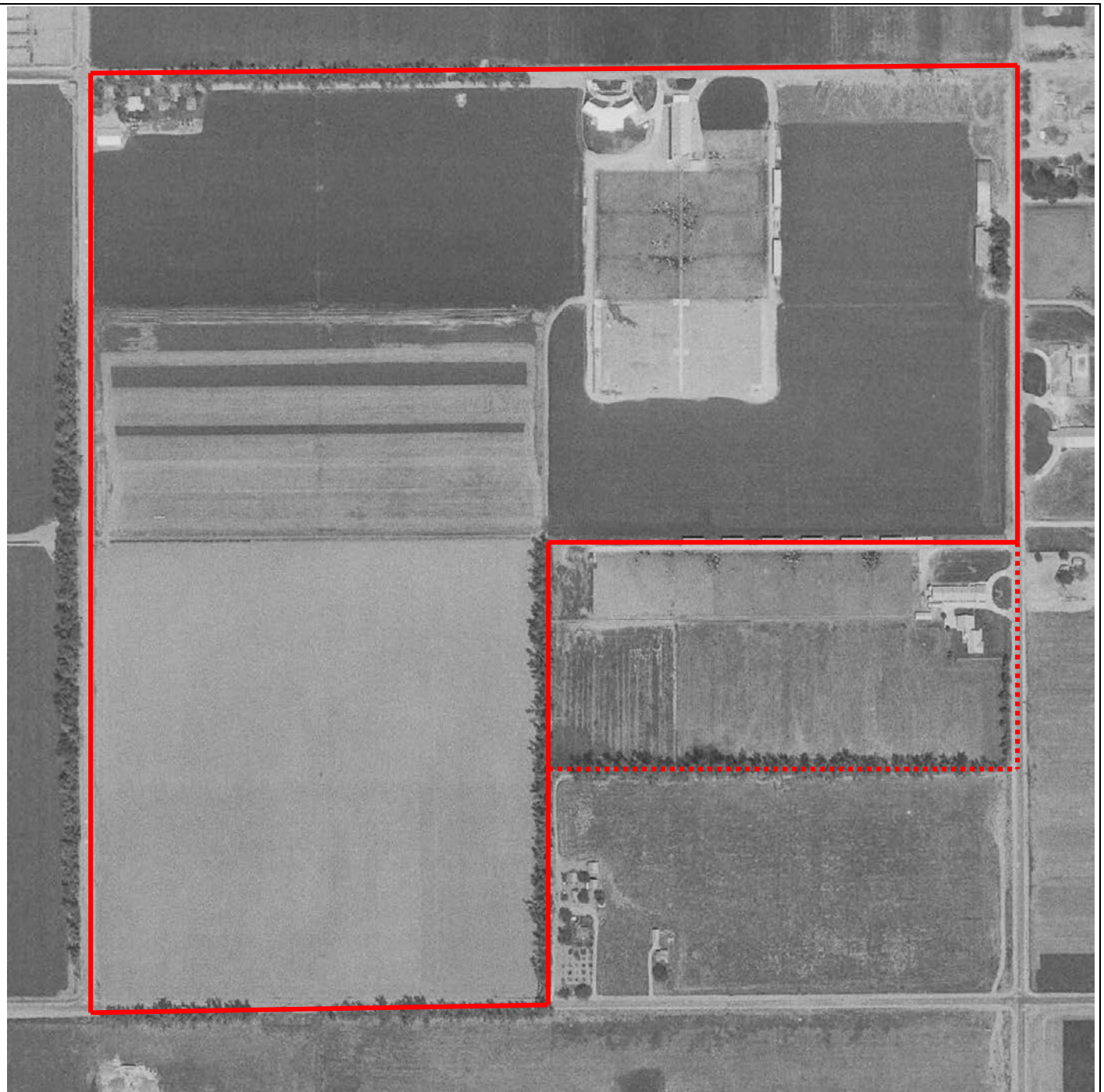


\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



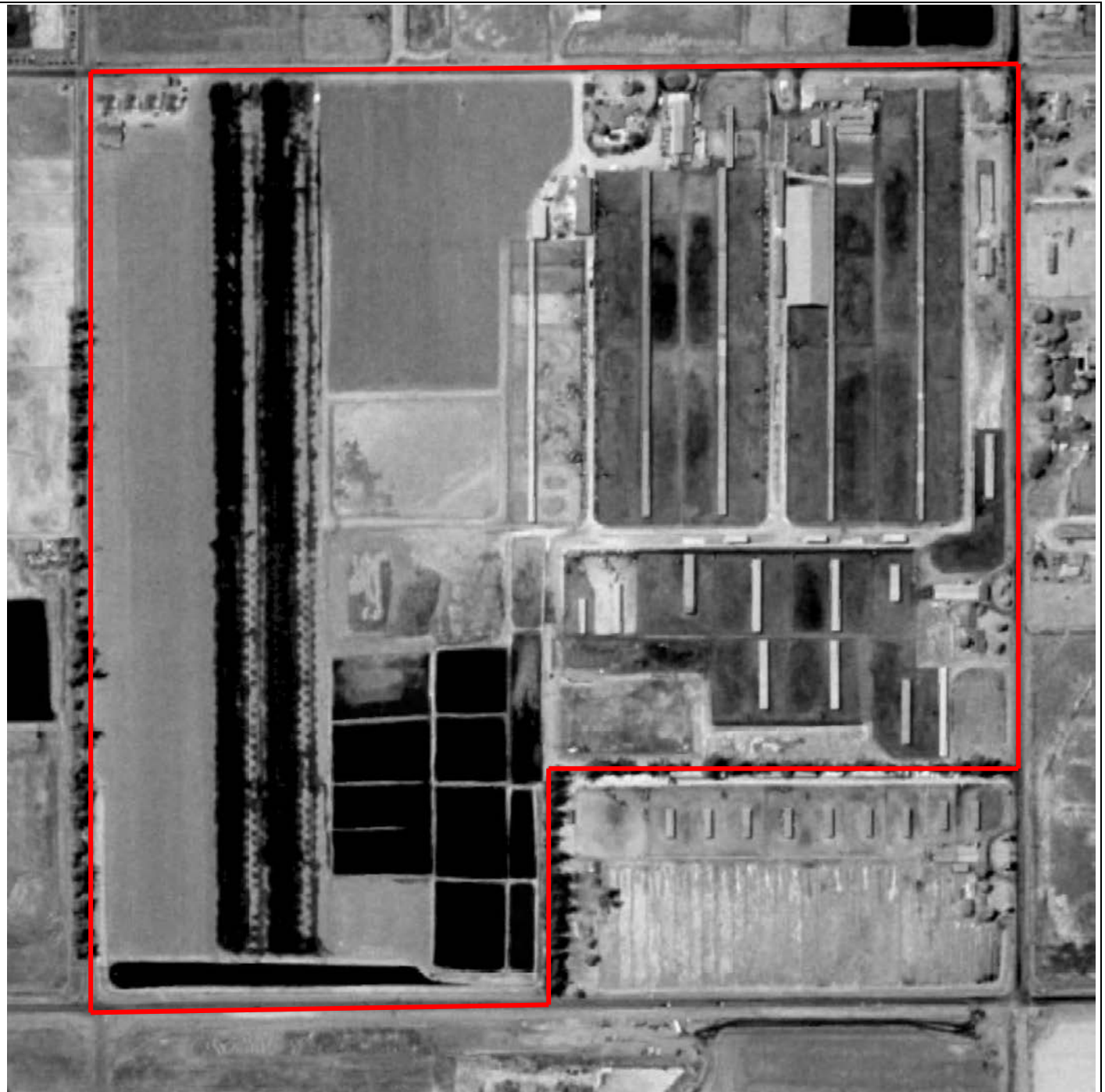
Aerial view in 1966 of:  
the George Borba & Son property  
the Harry Boersma property

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Aerial view in 2002 of:  
the George Borba & Son Dairy property that now includes the Harry Boersma property

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



**Borba Dairy Main House. View looking southeast.**



**Borba Dairy Main House, front elevation. View looking west.**

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



North (front) and west elevations of Main Dairy Barn. View looking southeast.



West (front) and north elevations of Auxiliary Dairy Barn. View looking southeast.

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Farm manager's house. View looking west.



Farm manager's house. View looking northwest.

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Residence built by Boersma. View looking west.



Boersma-Borba House. View looking southwest.

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Dairy barn built for Harry Boersma Farm, bought by Borba in 1993. View looking west.



Boersma-Borba Dairy barn. View looking northwest.



Single-family residences, built by Borba in 1988. View looking southeast.



Single-family residences. View looking southwest.



\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Storage barn. View looking southeast.



Storage barn. View looking northeast.



Dry feed sorter. View looking south.



Dry feed sorter. View looking southwest.



Wet food mixing bay. View looking northwest.

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Cattle shade east of Main Dairy Barn. View looking south.



Cattle shade east of Auxiliary Dairy Barn. View looking south.

\*Recorded by: Pamela Daly, M.S.H.P.

\*Date: June 14, 2019

Continuation

Update



Water pump located west of Main House, along Eucalyptus Ave. View looking east.



Water pump and tank located immediately west of Auxiliary Dairy Barn. View looking north

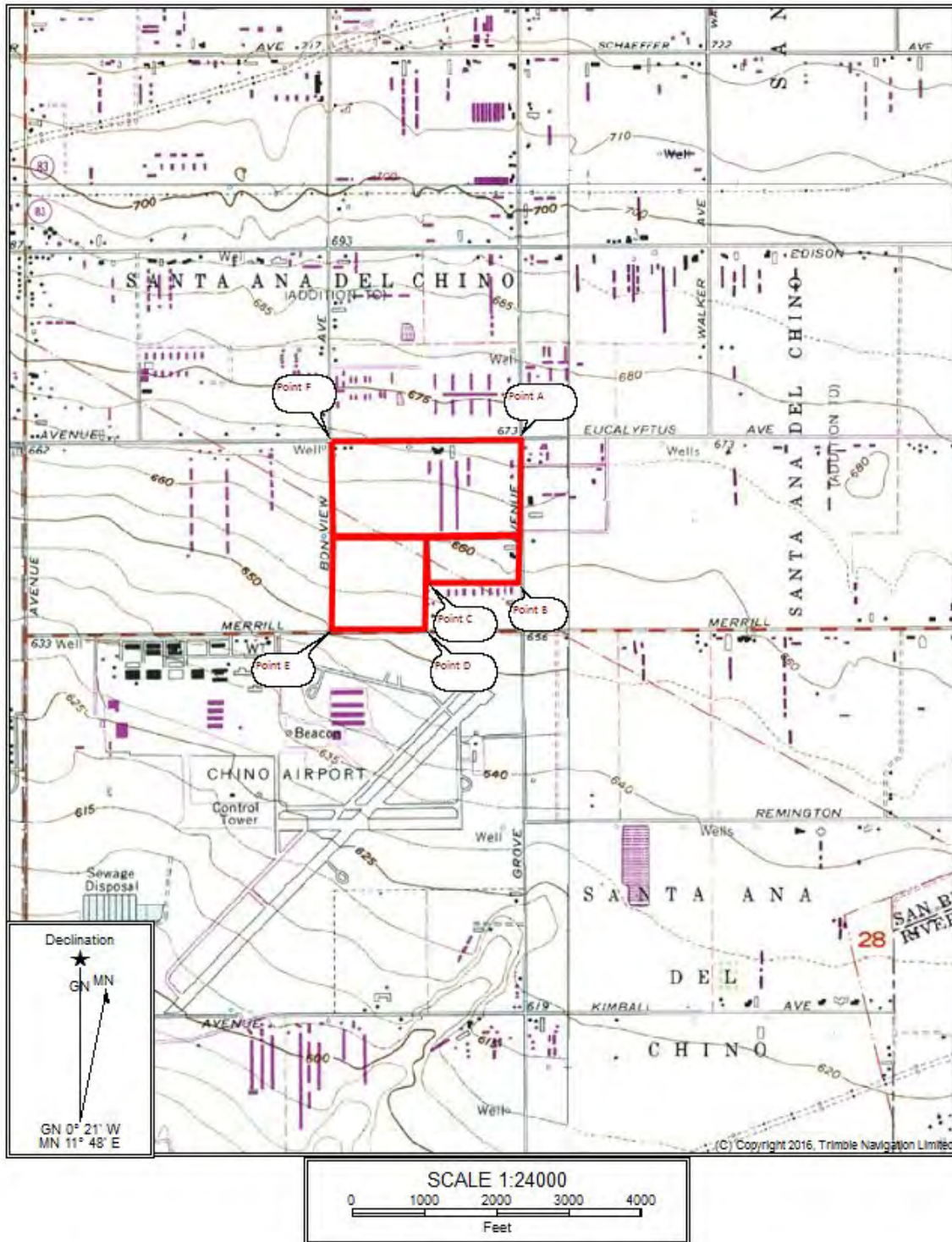


Dry manure-holding structure on South Grove Ave. View looking south.



Hay shed (left) across from gable cow shade structure. View looking south.

**LOCATION MAP**



**APPENDIX D2**

**NATIVE AMERICAN CONSULTATION**

## **NAHC CONSULTATION**



## NATIVE AMERICAN HERITAGE COMMISSION

January 28, 2021

Alexis Vaughn  
City of Ontario

Via Email to: [avaughn@ontarioca.gov](mailto:avaughn@ontarioca.gov)

**Re: Native American Consultation, Pursuant to Senate Bill 18, Government Code §65352.3 and §65352.4, South Ontario Logistics Center Specific Plan Project, San Bernardino County**

Dear Ms. Vaughn:

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties.

Government Code §65352.3 and §65352.4 require local governments to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to cultural places when creating or amending General Plans, Specific Plans and Community Plans.

The law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction. The NAHC believes that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

The NAHC also believes that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:
  - A listing of any and all known cultural resources that have already been recorded or are adjacent to the APE, such as known archaeological sites;
  - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
  - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the APE; and
  - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
2. The results of any archaeological inventory survey that was conducted, including:
  - Any report that may contain site forms, site significance, and suggested mitigation measures.



CHAIRPERSON  
**Laura Miranda**  
*Luiseño*

VICE CHAIRPERSON  
**Reginald Pagaling**  
*Chumash*

SECRETARY  
**Merri Lopez-Keifer**  
*Luiseño*

PARLIAMENTARIAN  
**Russell Attebery**  
*Karuk*

COMMISSIONER  
**William Mungary**  
*Paiute/White Mountain Apache*

COMMISSIONER  
**Julie Tumamait-Stenslie**  
*Chumash*

COMMISSIONER  
**[Vacant]**

COMMISSIONER  
**[Vacant]**

COMMISSIONER  
**[Vacant]**

EXECUTIVE SECRETARY  
**Christina Snider**  
*Pomo*

**NAHC HEADQUARTERS**  
1550 Harbor Boulevard  
Suite 100  
West Sacramento,  
California 95691  
(916) 373-3710  
[nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)  
NAHC.ca.gov

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code §6254.10.

3. The result of the Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.
4. Any ethnographic studies conducted for any area including all or part of the APE; and
5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event, that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we are able to assure that our consultation list remains current.

If you have any questions or need additional information, please contact me at my email address:

[Andrew.Green@nahc.ca.gov](mailto:Andrew.Green@nahc.ca.gov).

Sincerely,



Andrew Green  
Cultural Resources Analyst

Attachment

Native American Heritage Commission  
Tribal Consultation List  
San Bernardino County  
1/28/2021

**Gabrieleno Band of Mission  
Indians - Kizh Nation**

Andrew Salas, Chairperson  
P.O. Box 393 Gabrieleno  
Covina, CA, 91723  
Phone: (626) 926 - 4131  
admin@gabrielenoindians.org

**Santa Rosa Band of Cahuilla  
Indians**

Lovina Redner, Tribal Chair  
P.O. Box 391820 Cahuilla  
Anza, CA, 92539  
Phone: (951) 659 - 2700  
Fax: (951) 659-2228  
Isaul@santarosa-nsn.gov

**Gabrieleno/Tongva San Gabriel  
Band of Mission Indians**

Anthony Morales, Chairperson  
P.O. Box 693 Gabrieleno  
San Gabriel, CA, 91778  
Phone: (626) 483 - 3564  
Fax: (626) 286-1262  
GTtribalcouncil@aol.com

**Soboba Band of Luiseno  
Indians**

Scott Cozart, Chairperson  
P. O. Box 487 Cahuilla  
San Jacinto, CA, 92583 Luiseno  
Phone: (951) 654 - 2765  
Fax: (951) 654-4198  
jontiveros@soboba-nsn.gov

**Gabrielino /Tongva Nation**

Sandonne Goad, Chairperson  
106 1/2 Judge John Aiso St., Gabrielino  
#231  
Los Angeles, CA, 90012  
Phone: (951) 807 - 0479  
sgoad@gabrielino-tongva.com

**Gabrielino Tongva Indians of  
California Tribal Council**

Robert Dorame, Chairperson  
P.O. Box 490 Gabrielino  
Bellflower, CA, 90707  
Phone: (562) 761 - 6417  
Fax: (562) 761-6417  
gtongva@gmail.com

**Gabrielino-Tongva Tribe**

Charles Alvarez,  
23454 Vanowen Street Gabrielino  
West Hills, CA, 91307  
Phone: (310) 403 - 6048  
roadkingcharles@aol.com

**Quechan Tribe of the Fort Yuma  
Reservation**

Jill McCormick, Historic  
Preservation Officer  
P.O. Box 1899 Quechan  
Yuma, AZ, 85366  
Phone: (760) 572 - 2423  
historicpreservation@quechantribe.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 6097.98 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Government Code Sections 65352.3 and 65352.4 et seq for the proposed South Ontario Logistics Center Specific Plan Project, San Bernardino County.

**SAMPLE AB 52 CONSULTATION LETTER**



PAUL S. LEON  
MAYOR

SHEILA MAUTZ  
CITY CLERK

ALAN D. WAPNER  
MAYOR PRO TEM

JAMES R. MILHISER  
TREASURER

JIM W. BOWMAN  
DEBRA DORST-PORADA  
RUBEN VALENCIA  
COUNCIL MEMBERS

DELIVERED BY CERTIFIED MAIL

SCOTT OCHOA  
CITY MANAGER

March 11, 2021

Andrew Salas  
Gabrieleno Band of Mission Indians – Kizh Nation  
P.O. Box 393  
Covina, CA 91723

**SUBJECT: AB 52 NOTIFICATION – South Ontario Logistics Center Specific Plan / Nos. PSP19-001 & PGPA19-004**

Dear Mr. Salas:

The City of Ontario is evaluating a proposed Specific Plan and General Plan amendment, along with a Development Plan, Tentative Parcel Map, and Development Agreement (“Specific Plan” or “project”). The project is described below and illustrated on the attached map. The project is subject to the California Environmental Quality Act (CEQA). In accordance with Assembly Bill 52 (Public Resources Code Section 21080.3.1), California Native American Tribes may request consultation regarding possible significant effects that implementation of the proposed project may have on tribal cultural resources. A request for consultation must be received within 30 days of the date of this letter. The request must be in writing to the City of Ontario and must identify a lead contact person. If consultation is requested, the City of Ontario will begin the consultation process within 30 days.

The project and contact information are provided below:

**Project Name/File No.:** South Ontario Logistics Center Specific Plan (File Nos. PSP19-001 & PGPA19-004)

**Project Location:** The project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east. Regional location and local vicinity maps are provided in Figure 1, *Regional Location Map* and Figure 2, *Vicinity Map*, respectively. The project site is located in southwestern San Bernardino County, within the City of Ontario. The City of Ontario is located approximately 40 miles from downtown Los Angeles, 20 miles from downtown San Bernardino, and 30 miles from Orange County. Regional access is available to the Project site via State Route 83 (SR-83) approximately one mile to the west, State Route 60 (SR-60) approximately three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (SR-91) approximately eight miles to the south. The attached exhibits depict the regional location

**ONTARIO PLANNING DEPARTMENT – AB 52 NOTIFICATION**

**FILE NO.:** PSP19-001, PGPA19-004

of the site (Exhibit 1); the project vicinity (Exhibit 2); aerial of the project site and surrounding area (Exhibit 3); and, USGS Map (Exhibit 4).

The proposed Project site consists of 23 parcels that are associated with the San Bernardino County Assessor’s Parcel Numbers (APNs) presented in Table 1.

**Table 1: Assessor Parcel Numbers**

1054-071-01	1054-071-02	1054-081-03	1054-091-01	1054-091-02
1054-101-01	1054-101-02	1054-231-01	1054-231-02	1054-241-01
1054-241-02	1054-321-01	1054-321-02	1054-311-01	1054-311-02
1054-051-01	1054-051-02	1054-061-01	1054-061-02	1054-251-01
1054-251-02	1054-301-01	1054-301-02		

**Project Description:** The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste.

The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I is depicted in Exhibit 2, Concept Site Plan, and will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements.

The following summarize the discretionary approvals to be evaluated in the EIR as part of the Project review and approval process by the City of Ontario.

General Plan Amendment (GPA). The proposed GPA would amend the City’s General Plan Land Use Map by changing the existing land use designations of the 222.18-acre Project site from 159.04 acres of “Low Medium Density Residential” and 63.14 acres of “Business Park” to 181.04 acres of “General Industrial,” and 41.14 acres of “Business Park,” to facilitate development of the Project site.

South Ontario Logistics Center Specific Plan (SP). The SP proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the 222.18-acre Project site into a master-planned industrial/business park. The SP consists of five Planning Areas (PAs) which would accommodate a variety of industrial-serving commercial, low-intensity office, technology, manufacturing, and warehouse/distribution uses that are compatible with the Project site’s location within Safety Zone 6 of the Chino Airport.

## ONTARIO PLANNING DEPARTMENT – AB 52 NOTIFICATION

FILE NO.: PSP19-001, PGPA19-004

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The SP would allow up to 5,412,591 SF of building space for these PAs combined. PAs 1 and 3 would be located along Eucalyptus Avenue frontage. PAs 2, 4, and 5 will be located south of the PAs 1 and 3, north of Merrill Avenue, along the Bon View Avenue frontage (west) and Grove Avenue (east). The SP would establish two land use designations encompassing the SP area as follows:

- **Business Park:** The SP would allow for up to 1,075,235 SF of Business Park building space to be developed on a total of 41.14 gross acres within PAs 1 and 3. These PAs would be developed with business park buildings that would allow for the development of uses such as offices, technology centers, research and development, enterprises, light manufacturing and warehouse/distribution uses.
- **General Industrial:** The SP would allow for up to 4,337,356 SF of Industrial building space to be constructed within PAs 2, 4 and 5. These PAs would comprise 181.04 gross acres and would allow for the development of uses such as general light industrial, manufacturing, warehouse/distribution, and e-commerce fulfillment center operations.

**Housing Accountability Act (Senate Bill [SB] 330):** The EIR will include evaluation of “replacement housing” in accordance with SB 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB 330 requires in part, that where a development project results in reducing the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no “net loss” of the total allowable housing development in the City. The City has evaluated the proposed Project, and has determined that it would result in the “loss” of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change). Therefore, the City is evaluating replacement sites for rezoning to ensure that there is no net loss in allowable housing density due to the Project: the City may either rezone a portion of Grove Avenue to create a higher density transit-friendly corridor, or may rezone two specific sites proposed by the applicant at slightly higher residential densities. Both options are shown in see Figure 6, ***SB330 Replacement Sites***. The EIR will evaluate the potential environmental impacts of rezoning this area for higher density residential uses at a programmatic level, as no specific development has been proposed for these sites and no site-specific applications have been submitted to the City at this time.

**Background:** The City is preparing an Environmental Impact Report (EIR) for the project and will be incorporating project-specific mitigation measures along with standard The Ontario Plan (General Plan) set mitigation measures from the Certified Environmental Impact Report (FEIR) prepared for The Ontario Plan that was adopted in 2010. At minimum, the following Cultural Resources mitigation measure will be required for the project:

1. Should any cultural and/or archaeological resources be accidentally discovered during construction, construction activities shall be moved to other parts of the project site and a qualified archaeologist shall be contacted to determine the significance of these resources. If the find is determined to be an historical or unique archaeological resource, as defined in Section 15064.5 of the CEQA Guidelines, avoidance of other appropriate measures shall be implemented.
2. If paleontological resources are identified during any excavations, construction activities shall be moved to other parts of the project site and a qualified paleontologist shall be contacted to

## ONTARIO PLANNING DEPARTMENT – AB 52 NOTIFICATION

FILE NO.: PSP19-001, PGPA19-004

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determine the significance of these resources. If the find is determined to be significant, avoidance or other appropriate measures shall be implemented. One appropriate measure would include that a qualified paleontologist shall be permitted to recover and evaluate the find(s) in accordance with current standards and guidelines.

3. In the event of the accidental discovery or recognition of any human remains during excavation/construction, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner has been contacted and any required investigation or required Native American consultation has been completed.

General Plan FEIR Cultural Resources Mitigation Measures:

5-1 Historic or potentially historic resources in the City shall be evaluated for historic significance through the City's tier system prior to the issuance of plan or development approvals.

5-2 In Areas of documented or inferred archaeological and/or paleontological resource presence, City staff shall require applicants for development permits to provide studies to document the presence/absence of such resources. On properties where resources are identified, such studies shall provide a detailed mitigation plan, including a monitoring program and recovery and/or in situ preservation plan, based on the recommendation of a qualified cultural preservation expert. The Mitigation plan shall include the following requirements:

- a) Archaeologist and/or paleontologist shall be retained for the project and will be on call during grading and other significant ground-disturbing activities.
- b) Should any cultural resources be discovered, no further grading shall occur in the area of the discovery until the Planning Director or designee is satisfied that adequate provisions are in place to protect these resources.
- c) Unanticipated discoveries shall be evaluated for significance by a San Bernardino County Certified Professional Archaeologist/Paleontologist. If significance criteria are met, then the project shall be required to perform data recovery, professional identification, radiocarbon dates, and other special studies; submit materials to a museum for permanent curation; and provide a comprehensive final report including catalog with museum numbers.

**Cultural Resources Analysis:** The project is required to prepare a cultural resources impact analysis and the results of which will be included in the project EIR. In March 2020, a phase 1 cultural and paleontological resources assessment records search information was provided by the Material Culture Consulting group. A copy of the report's Appendix B: Cultural Resources Records Search Results is enclosed. Further research will need to occur for Phase 2 of the Specific Plan area, should it be developed in the future.



**ONTARIO PLANNING DEPARTMENT – AB 52 NOTIFICATION**

**FILE NO.:** PSP19-001, PGPA19-004

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**Lead Agency Contact:** Alexis Vaughn, City of Ontario, 303 East “B” Street, Ontario, California 91764.

Should you have any questions regarding this matter, or require additional information or further clarification, please feel free to contact me by telephone at (909) 395-2416 or by e-mail at [avaughn@ontarioca.gov](mailto:avaughn@ontarioca.gov). Thank you in advance for your timely attention to this matter.

Respectfully,



Alexis Vaughn  
Assistant Planner

Enclosures

Figure 1, Regional Location Map



Figure 2, Vicinity Map



source: ESRI World Imagery  
**EXHIBIT 1:** Vicinity Map  
south Ontario Logistics Center NOP



Kimley » Horn

Figure 3, USGS Map

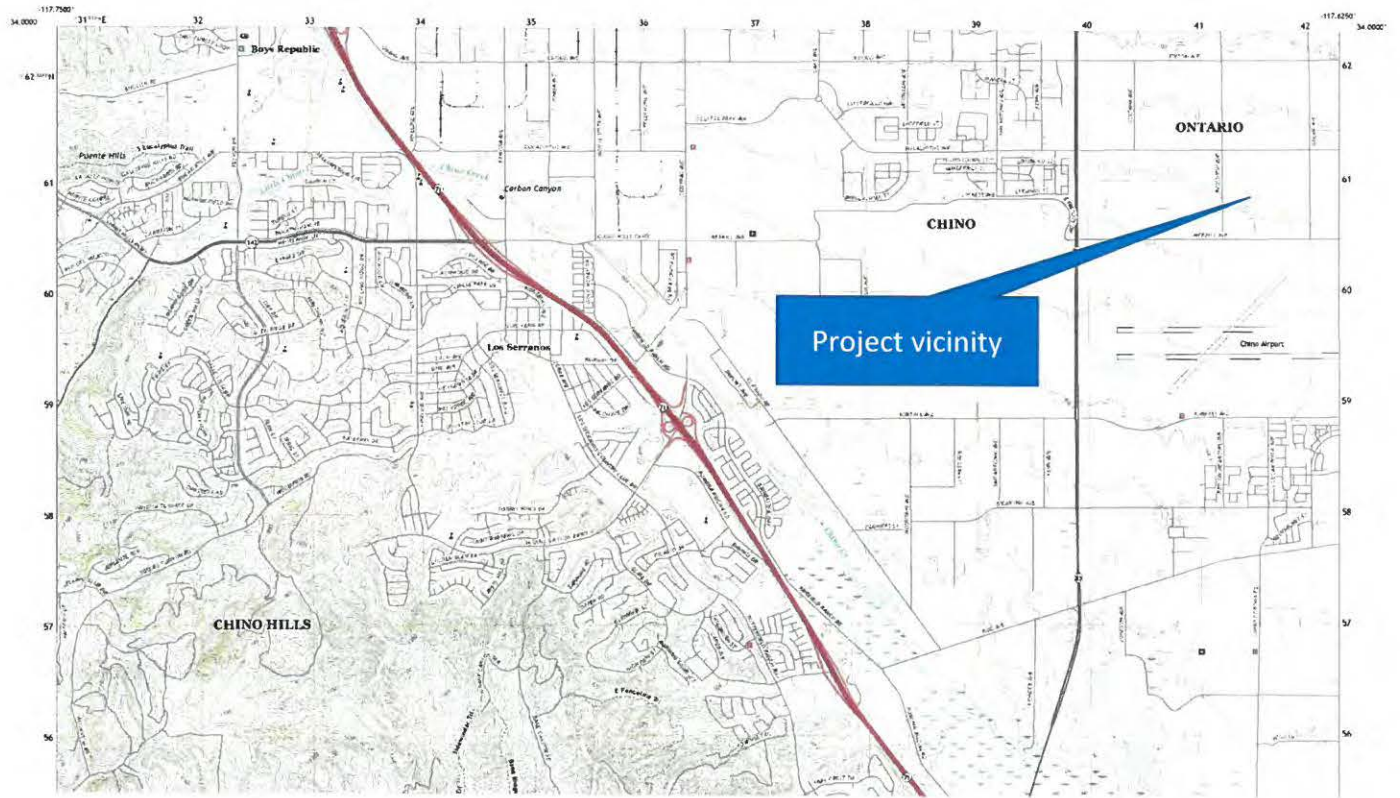
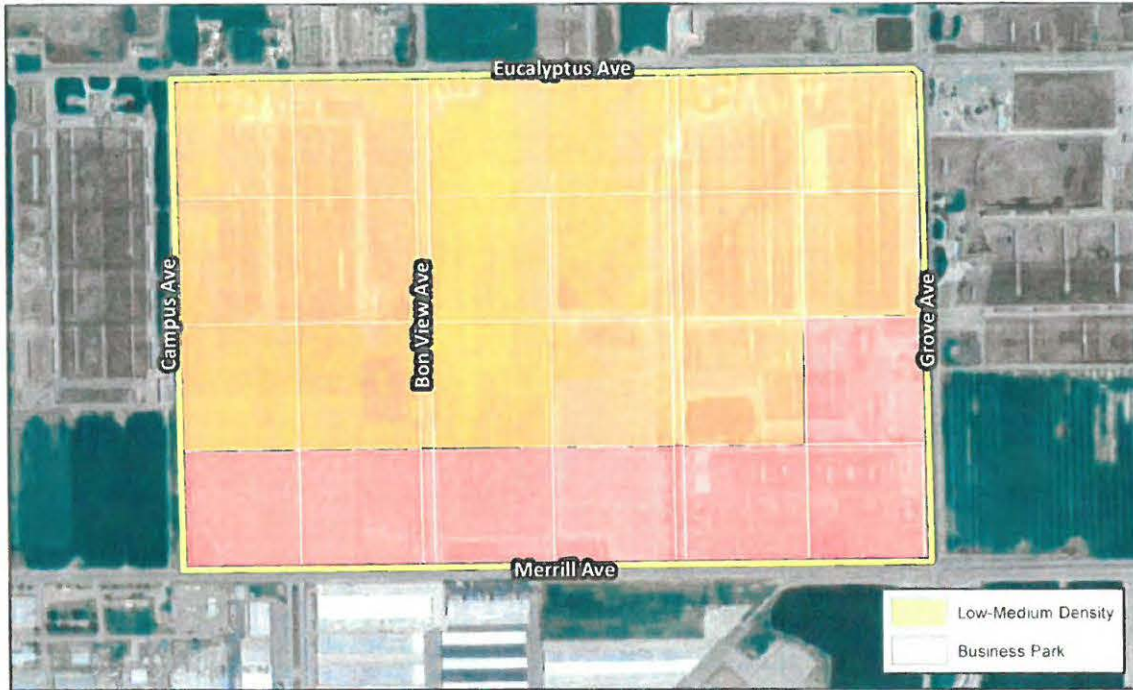
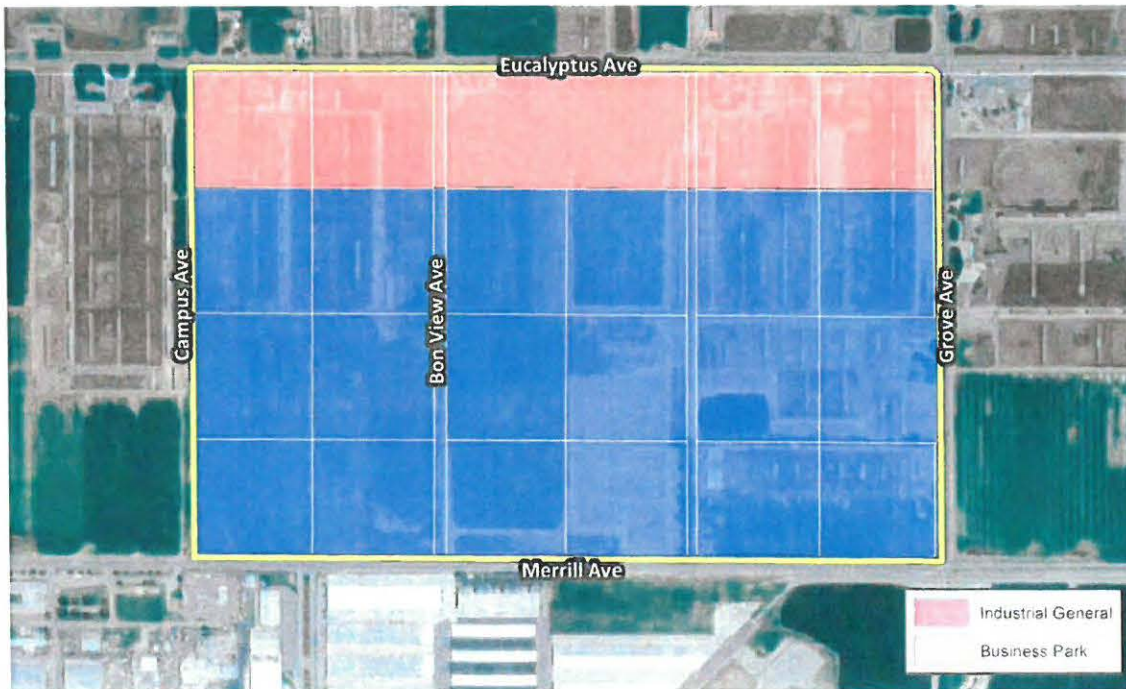


Figure 4, Existing and Proposed General Plan Land Use



Existing Land Use



Proposed Land Use

Source: Ontario General Plan; ESRI World Imagery

EXHIBIT 2: Proposed General Plan Land Uses  
South Ontario Logistics Center NOP

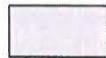


Kimley » Horn

Figure 5, Proposed Specific Plan Land Use Plan



**Land Use Designation**



Business Park



Industrial General



Project Site

Figure 6, SB330 Replacement Sites



Source: City of Ontario  
**EXHIBIT 4: SB330 Replacement Sites**  
South Ontario Logistics Center NOP



**SAMPLE SB 18 CONSULTATION LETTER**





PAUL S. LEON  
MAYOR

SHEILA MAUTZ  
CITY CLERK

ALAN D. WAPNER  
MAYOR PRO TEM

JAMES R. MILHISER  
TREASURER

JIM W. BOWMAN  
DEBRA DORST-PORADA  
RUBEN VALENCIA  
COUNCIL MEMBERS

DELIVERED BY CERTIFIED MAIL

SCOTT OCHOA  
CITY MANAGER

March 11, 2021

Gabrieleno Band of Mission Indians - Kizh Nation  
Andrew Salas  
P.O. Box 393  
Covina, CA 91723

**SUBJECT: SB 18 NOTIFICATION – South Ontario Logistics Center Specific Plan / Nos. PSP19-001 & PGPA19-004**

Dear Mr. Salas:

In an effort to preserve and protect California Native American traditional tribal cultural places, the City of Ontario invites you to consult on the proposed Specific Plan, pursuant to Government Code 65352.3. The City of Ontario recognizes that the proposed project may have impacts to potential cultural resources and encourages tribal participation. It is important for the City and local Tribes to collaborate efforts in order to preserve cultural resources through the local planning process.

The project and contact information are provided below:

**Project Name/File No.:** South Ontario Logistics Center Specific Plan (File Nos. PSP19-001 & PGPA19-004)

**Project Location:** The project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east. Regional location and local vicinity maps are provided in Figure 1, *Regional Location Map* and Figure 2, *Vicinity Map*, respectively. The project site is located in southwestern San Bernardino County, within the City of Ontario. The City of Ontario is located approximately 40 miles from downtown Los Angeles, 20 miles from downtown San Bernardino, and 30 miles from Orange County. Regional access is available to the Project site via State Route 83 (SR-83) approximately one mile to the west, State Route 60 (SR-60) approximately three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (SR-91) approximately eight miles to the south. The attached exhibits depict the regional location

## ONTARIO PLANNING DEPARTMENT – SB 18 NOTIFICATION

FILE NO.: PSP19-001 & PGPA19-004

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of the site (Exhibit 1); the project vicinity (Exhibit 2); aerial of the project site and surrounding area (Exhibit 3); and, USGS Map (Exhibit 4).

The proposed Project site consists of 23 parcels that are associated with the San Bernardino County Assessor's Parcel Numbers (APNs) presented in Table 1.

**Table 1: Assessor Parcel Numbers**

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1054-051-01	1054-051-02	1054-061-01	1054-061-02	1054-251-01
1054-251-02	1054-301-01	1054-301-02		

***Project Description:*** The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste.

The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I is depicted in Exhibit 2, Concept Site Plan, and will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements.

The following summarize the discretionary approvals to be evaluated in the EIR as part of the Project review and approval process by the City of Ontario.

***General Plan Amendment (GPA).*** The proposed GPA would amend the City's General Plan Land Use Map by changing the existing land use designations of the 222.18-acre Project site from 159.04 acres of "Low Medium Density Residential" and 63.14 acres of "Business Park" to 181.04 acres of "General Industrial," and 41.14 acres of "Business Park," to facilitate development of the Project site.

***South Ontario Logistics Center Specific Plan (SP).*** The SP proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the 222.18-acre Project site into a master-planned industrial/business park. The SP consists of five Planning Areas (PAs) which would accommodate a variety of industrial-serving commercial, low-intensity office, technology, manufacturing, and warehouse/distribution uses that are compatible with the Project site's location within Safety Zone 6 of the Chino Airport.

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The SP would allow up to 5,412,591 SF of building space for these PAs combined. PAs 1 and 3 would be located along Eucalyptus Avenue frontage. PAs 2, 4, and 5 will be located south of the PAs 1 and 3, north of Merrill Avenue, along the Bon View Avenue frontage (west) and Grove Avenue (east). The SP would establish two land use designations encompassing the SP area as follows:

- **Business Park:** The SP would allow for up to 1,075,235 SF of Business Park building space to be developed on a total of 41.14 gross acres within PAs 1 and 3. These PAs would be developed with business park buildings that would allow for the development of uses such as offices, technology centers, research and development, enterprises, light manufacturing and warehouse/distribution uses.
- **General Industrial:** The SP would allow for up to 4,337,356 SF of Industrial building space to be constructed within PAs 2, 4 and 5. These PAs would comprise 181.04 gross acres and would allow for the development of uses such as general light industrial, manufacturing, warehouse/distribution, and e-commerce fulfillment center operations.

**Housing Accountability Act (Senate Bill [SB] 330):** The EIR will include evaluation of “replacement housing” in accordance with SB 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB 330 requires in part, that where a development project results in reducing the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no “net loss” of the total allowable housing development in the City. The City has evaluated the proposed Project, and has determined that it would result in the “loss” of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change). Therefore, the City is evaluating replacement sites for rezoning to ensure that there is no net loss in allowable housing density due to the Project: the City may either rezone a portion of Grove Avenue to create a higher density transit-friendly corridor, or may rezone two specific sites proposed by the applicant at slightly higher residential densities. Both options are shown in see Figure 6, ***SB330 Replacement Sites***. The EIR will evaluate the potential environmental impacts of rezoning this area for higher density residential uses at a programmatic level, as no specific development has been proposed for these sites and no site-specific applications have been submitted to the City at this time.

**Background:** The City is preparing an Environmental Impact Report (EIR) for the project and will be incorporating project-specific mitigation measures along with standard The Ontario Plan (General Plan) set mitigation measures from the Certified Environmental Impact Report (FEIR) prepared for The Ontario Plan that was adopted in 2010. At minimum, the following Cultural Resources mitigation measure will be required for the project:

1. Should any cultural and/or archaeological resources be accidentally discovered during construction, construction activities shall be moved to other parts of the project site and a qualified archaeologist shall be contacted to determine the significance of these resources. If the find is determined to be an historical or unique archaeological resource, as defined in Section 15064.5 of the CEQA Guidelines, avoidance of other appropriate measures shall be implemented.
2. If paleontological resources are identified during any excavations, construction activities shall be moved to other parts of the project site and a qualified paleontologist shall be contacted to

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determine the significance of these resources. If the find is determined to be significant, avoidance or other appropriate measures shall be implemented. One appropriate measure would include that a qualified paleontologist shall be permitted to recover and evaluate the find(s) in accordance with current standards and guidelines.

3. In the event of the accidental discovery or recognition of any human remains during excavation/construction, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner has been contacted and any required investigation or required Native American consultation has been completed.

General Plan FEIR Cultural Resources Mitigation Measures:

5-1 Historic or potentially historic resources in the City shall be evaluated for historic significance through the City's tier system prior to the issuance of plan or development approvals.

5-2 In Areas of documented or inferred archaeological and/or paleontological resource presence, City staff shall require applicants for development permits to provide studies to document the presence/absence of such resources. On properties where resources are identified, such studies shall provide a detailed mitigation plan, including a monitoring program and recovery and/or in situ preservation plan, based on the recommendation of a qualified cultural preservation expert. The Mitigation plan shall include the following requirements:

- a) Archaeologist and/or paleontologist shall be retained for the project and will be on call during grading and other significant ground-disturbing activities.
- b) Should any cultural resources be discovered, no further grading shall occur in the area of the discovery until the Planning Director or designee is satisfied that adequate provisions are in place to protect these resources.

Unanticipated discoveries shall be evaluated for significance by a San Bernardino County Certified Professional Archaeologist/Paleontologist. If significance criteria are met, then the project shall be required to perform data recovery, professional identification, radiocarbon dates, and other special studies; submit materials to a museum for permanent curation; and provide a comprehensive final report including catalog with museum numbers.

I would like to assure you that the City of Ontario will enforce all above mitigation measures as set forth in the General Plan FEIR. In addition, project specific mitigations measures identified in the project's EIR will also be enforced.

**Lead Agency Contact:** Alexis Vaughn, City of Ontario, 303 East "B" Street, Ontario, California 91764.

In accordance with Government Code section 65352.3 (a)(2), please respond to this request for consultation within 90 days following receipt of this notification.

**ONTARIO PLANNING DEPARTMENT – SB 18 NOTIFICATION**

**FILE NO.:** PSP19-001 & PGPA19-004

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Should you have any questions regarding this matter, or require additional information or further clarification, please feel free to contact me by telephone at (909) 395-2416 or by e-mail at [avaughn@ontarioca.gov](mailto:avaughn@ontarioca.gov). Thank you in advance for your timely attention to this matter.

Respectfully,



Alexis Vaughn  
Assistant Planner  
Enclosures

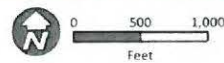
Figure 1, Regional Location Map



Figure 2, Vicinity Map



source: ESRI World Imagery  
**EXHIBIT 1: Vicinity Map**  
South Ontario Logistics Center NOP



Kimley»Horn

**ONTARIO PLANNING DEPARTMENT – SB 18 NOTIFICATION**  
**FILE NO.: PSP19-001 & PGPA19-004**

*Figure 3, USGS Map*

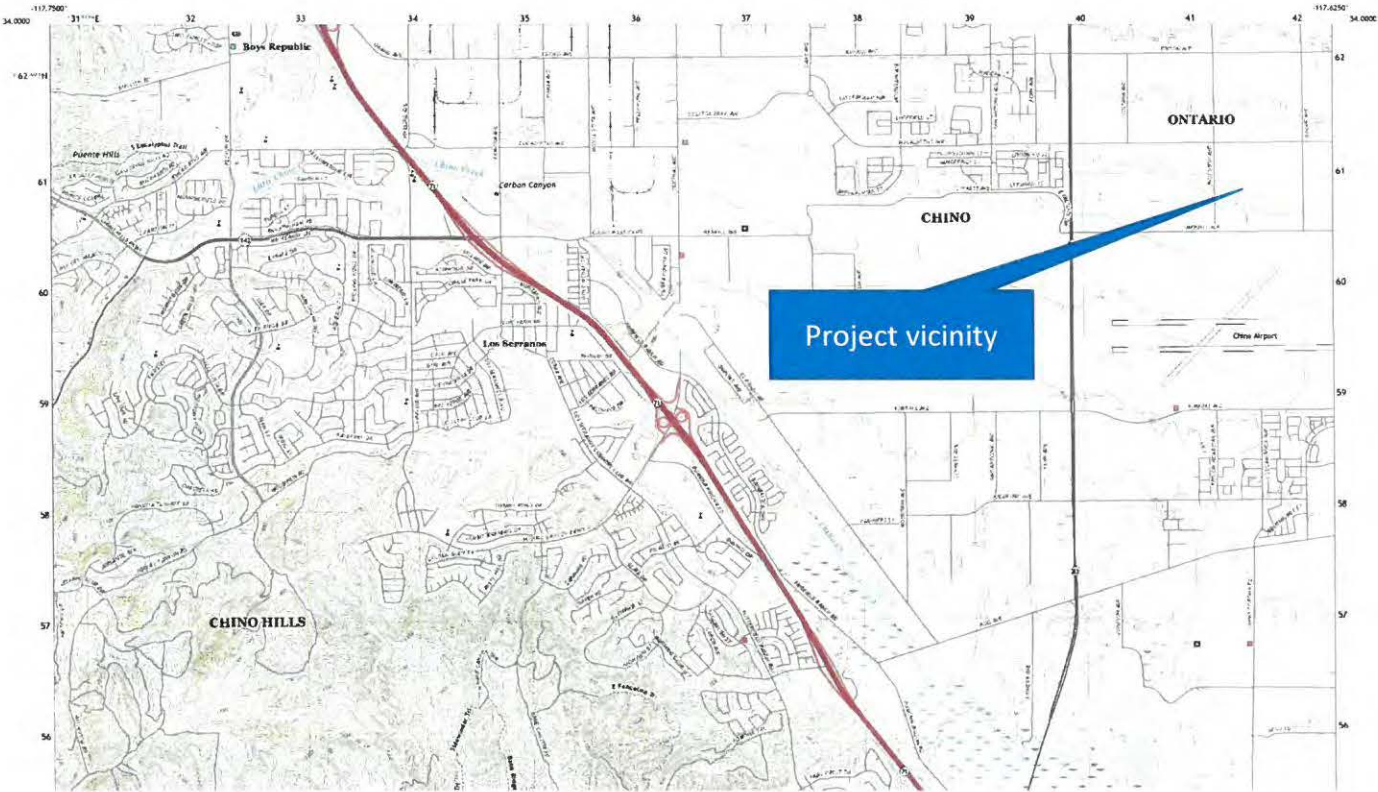
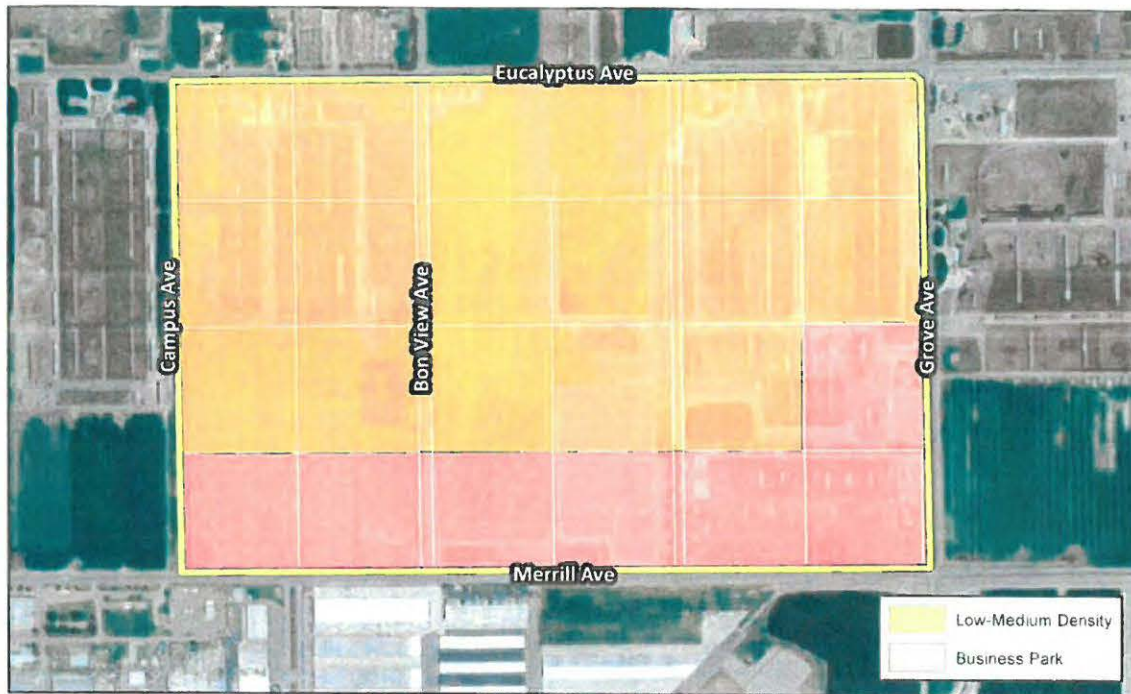
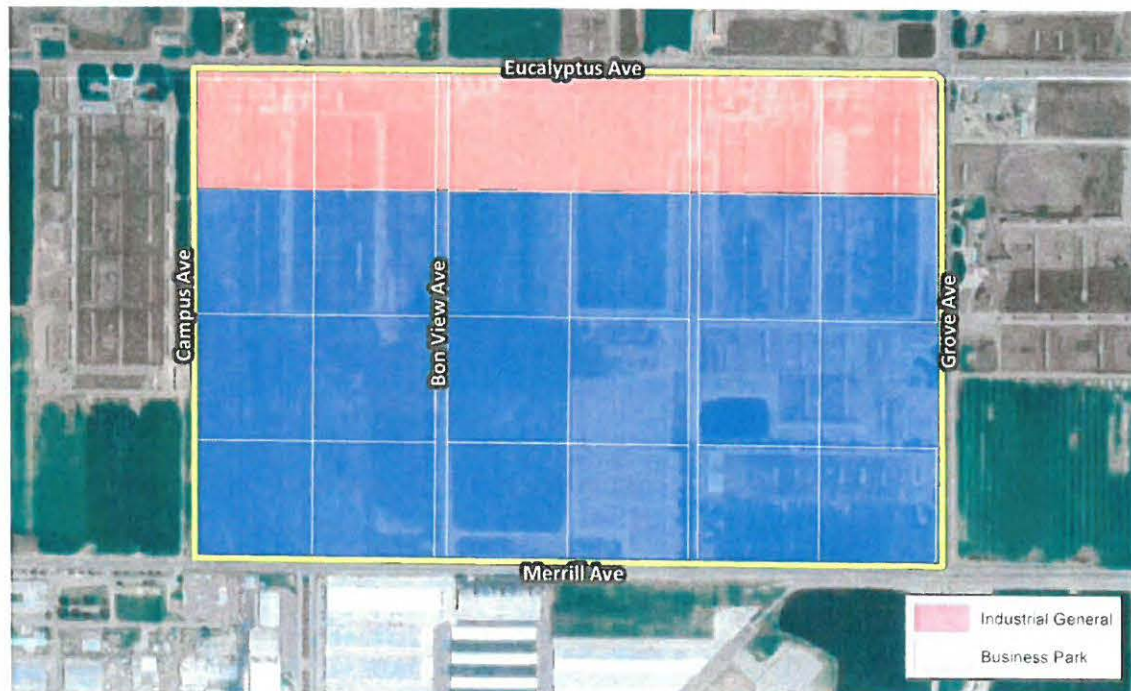




Figure 4, Existing and Proposed General Plan Land Use



Existing Land Use



Proposed Land Use

Source: Ontario General Plan, ESRI World Imagery

EXHIBIT 2: Proposed General Plan Land Uses  
South Ontario Logistics Center NOP

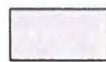


Kimley >> Horn

Figure 5, Proposed Specific Plan Land Use Plan



**Land Use Designation**



Business Park



Industrial General



Project Site

Figure 6, SB330 Replacement Sites



Source: City of Ontario  
**EXHIBIT 4: SB330 Replacement Sites**  
South Ontario Logistics Center NOP



**APPENDIX E**  
**GEOLOGICAL RESOURCES REPORTS**

**APPENDIX E1**

**GEOTECHNICAL FEASIBILITY STUDY**

GEOTECHNICAL FEASIBILITY STUDY  
PROPOSED SOUTH ONTARIO LOGISTICS  
CENTER

SWC Eucalyptus Avenue and Grove Avenue  
Ontario, California

For  
REDA, LLC



**SOUTHERN  
CALIFORNIA  
GEOTECHNICAL**  
*A California Corporation*

September 26, 2019

REDA, LLC  
4100 MacArthur Boulevard, Suite 120  
Newport Beach, California 92660



**SOUTHERN  
CALIFORNIA  
GEOTECHNICAL**  
*A California Corporation*

Attention: Mr. Bill Goltermann

Project No.: 19G134-2

Subject: Geotechnical Feasibility Study  
Proposed South Ontario Logistics Center  
SWC Eucalyptus Avenue and Grove Avenue  
Ontario, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical feasibility study at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

**SOUTHERN CALIFORNIA GEOTECHNICAL, INC.**

A handwritten signature in blue ink that reads "Daniel W. Nielsen".

Daniel W. Nielsen, RCE 77915  
Senior Engineer



A handwritten signature in blue ink that reads "Robert G. Trazo".

Robert G. Trazo, M.Sc., GE 2655  
Principal Engineer



Distribution: (1) Addressee

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## 1.0 EXECUTIVE SUMMARY

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Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

It should be noted that this investigation was focused on determining the geotechnical feasibility of the proposed development. This report is not a design-level investigation. Future studies will be necessary to refine the preliminary design parameters that are presented within this report.

### Preliminary Geotechnical Design Recommendations

- Demolition of the existing structures, including the residence, milking barn, sheds, ponds, canopy shelters, and the existing pavements will be required in order to facilitate construction of the new buildings. Demolition of these structures should include all foundations, floor slabs, utilities, septic systems, and any other subsurface improvements that will not remain in place for use with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2 inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into crushed miscellaneous base (CMB).
- Site stripping of any existing vegetated areas should include all vegetation, organic soils, and root masses. These materials should be disposed of offsite. Site stripping should also include removal of all manure and any topsoil. These materials should also be disposed of off-site. Manure was observed throughout the cattle pen areas with thicknesses of up to 2± inches at the boring and trench locations. Additionally, some of the soils in the upper 6 to 24± inches in the cattle pen areas possess moderate to high organic contents.
- Existing undocumented fill soils were encountered most of the boring and trench locations, extending to depths of up to 3± feet. Potentially compressible native alluvial soils were at various depths throughout the upper 9 to 10± feet.
- The near-surface soils possess very low expansion potentials.
- The on-site soils possess moderate to high corrosion potentials. Some of the soils possess chloride concentrations that may be corrosive to steel within reinforced concrete. We recommend that the client contact a corrosion engineer for a more thorough evaluation.
- The proposed development is considered to be feasible with respect to the geotechnical conditions encountered at the boring and trench locations at the site. However, remedial grading will be necessary in order to support the proposed structures on conventional shallow foundation systems. Preliminary remedial grading and foundation design recommendations have been provided herein, based on the preliminary site plan, assumed site grading, and assumed foundation loads.
- Preliminarily, the overexcavations within the building areas are recommended to extend to a depth of at least 4 to 6 feet below existing grades and 3 to 4 feet below proposed building pad subgrade elevations. The overexcavation should also extend to a depth of at least 2 to 3 feet below bearing grade within the influence zones of any new foundations. These recommendations are subject to review and may be revised based on the results of the design-level geotechnical investigation.

- Preliminarily, the new parking area subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned to within 0 to 4 percent above the optimum moisture content and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

#### Preliminary Foundation Design Recommendations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 to 3,000 lbs/ft<sup>2</sup> maximum allowable soil bearing pressure.
- The design of the foundations will depend on the results of the future design-level geotechnical study. Minimum reinforcement consisting of two (2) to four (4) No. 5 rebars in strip footings. Additional reinforcement may be necessary for structural considerations.

#### Preliminary Floor Slab Design Recommendations

- Conventional slab-on-grade, minimum 6 to 7 inches thick.
- The design of the floor slabs will depend on the results of the future design-level geotechnical study. The actual thickness and reinforcement of the floor slabs should be determined by the structural engineer.

#### Preliminary Pavement Design Recommendations

ASPHALT PAVEMENTS (R = 30)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 30)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

## 2.0 SCOPE OF SERVICES

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The scope of services performed for this project was in general accordance with our Proposal No. 19P305-2, dated July 29, 2019. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to determine the geotechnical feasibility of the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical feasibility study.

## 3.0 SITE AND PROJECT DESCRIPTION

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### 3.1 Site Conditions

The subject site is located at the southwest corner of Eucalyptus Avenue and Grove Avenue in Ontario, California. The site is bounded to the north by Eucalyptus Avenue, to the west by Bon View Avenue, to the south by Merrill Avenue and an existing dairy farm, and to the east by Grove Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The site is currently developed as a dairy farm. The eastern half of the subject site is presently developed with several cattle pens which include steel canopies, and steel barn. The northeastern portion of the site is developed with two (2) single-family residences, a milking parlor, and other structures associated with milking activities. The single-family residences appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The southeastern portion of the site is developed with multiple cattle pens, a 106,500± ft<sup>2</sup> wastewater pond, and a single-family residence in the southeastern corner. The ground surface cover surrounding the residences and the other structures generally consists of turf grass, aggregate base (AB), asphaltic concrete (AC), and concrete pavements, as well as manure in the cattle pen areas and exposed soils with sparse native grass and weed growth in the remaining areas of the site.

The western half of the site appears to be primarily utilized for agricultural purposes and wastewater storage. The ground surface cover generally consists of exposed soils with moderate to very dense native grass and weed growth. The northwestern corner of the site is developed with four (4) small farmhouses and a steel barn structure. The farmhouses appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding these structures consists of turf grass, concrete pavements, and exposed soil. The southern portion of the western half of the site contains ten (10) wastewater holding ponds ranging in size from 28,500± ft<sup>2</sup> to 90,000± ft<sup>2</sup> and depths ranging from 3 to 5± feet.

Topographic information of the subject site was prepared by Thienes Engineering, Inc. The site topography generally slopes downward to the south-southwest at a gradient of less than 1± percent. With the exception of the aforementioned wastewater holding ponds, the existing site grades range from an elevation of 675± feet mean sea level (msl) in the northeastern area of the site to 652± feet msl in the southwestern area.

### 3.2 Proposed Development

A conceptual site plan, prepared by HPA, Inc., was provided to our office by the client. This plan indicates that the site will be developed with eight (8) commercial/industrial buildings (identified as Buildings 1 through 8). Buildings 1 through 3 will occupy the majority of the subject site and will range from 473,335± ft<sup>2</sup> to 1,238,720± ft<sup>2</sup> in size. Buildings 1 and 2 will be constructed in

cross-dock configurations, and Building 3 will be constructed with dock-high doors along the southern building wall. Buildings 4 through 8 will be located in the northern region of the site along Eucalyptus Avenue, and will range from 67,490± ft<sup>2</sup> to 118,550± ft<sup>2</sup> in size. These buildings will be constructed with dock-high doors along the southern wall of each building. It is expected that the new buildings will be surrounded by asphaltic concrete pavements in the parking and drive lane areas, and Portland cement concrete pavements in the loading dock areas. We expect that several landscaped planters and areas of concrete flatwork will be constructed throughout the site.

Detailed structural information has not been provided. It is assumed that the commercial/industrial buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundations with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 3 to 6 kips per linear foot, respectively.

Preliminary grading plans were not available at the time of this report. Based on the existing topography, and assuming a relatively balanced site, cuts and fills of up to 5± feet are expected to be necessary to achieve the proposed site grades within the proposed building areas. The proposed structures are not expected to incorporate any significant below-grade construction such as basements or crawl spaces. It should be noted that this estimate does not include the preliminary remedial grading recommendations which are presented in a subsequent section of this report.

### 3.3 Previous Study

Southern California Geotechnical, Inc. (SCG) previously performed infiltration testing at the subject site. The subsurface exploration for the previous study consisted of nine (9) infiltration test borings advanced to depths of 12 to 20± feet below the existing site grades. In addition to the nine (9) infiltration borings, one (1) exploratory boring was drilled to a depth of 60± feet. Disturbed alluvial soils were encountered at the ground surface at most of the infiltration test locations, extending to a depth of 3± feet below the existing site grades. The disturbed alluvial soils consisted of very loose to medium dense silty fine sands with varying amounts of medium sand. Native alluvial soils were encountered beneath the disturbed alluvium and at the ground surface at the exploratory boring and the remaining infiltration boring locations, extending to at least 60± feet. The alluvium consisted of soft to very stiff silty clays and fine sandy clays, and loose to dense fine sandy silts, silty fine sands, clayey fine sands, and fine sands with varying medium sand, silt, and clay content. Free water was not encountered during the drilling of any of the borings, and was considered to have existed at a depth in excess of 60± feet at the time of the previous subsurface exploration. Preliminary infiltration rates of 0 to 4.2 inches per hour were recommended to be used in the design of the proposed infiltration systems.

## 4.0 SUBSURFACE EXPLORATION

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### 4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of six (6) borings advanced to depths of 20 to 25± feet below the existing site grades. In addition, five (5) trenches were excavated to depths of 4.5 to 10± feet below the existing site grades. The trenches were excavated using a backhoe with a 36-inch-wide bucket. All of the borings and trenches were logged during the drilling and excavation by members of our staff.

The borings were advanced with hollow-stem augers, by a truck-mounted drilling rig. Representative bulk and undisturbed soil samples were taken during drilling. Relatively undisturbed samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. Samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings (identified as Boring Nos. B-1 through B-6) and trenches (identified as Trench Nos. T-1 through T-5) are indicated on the Boring and Trench Location Plan, included as Plate 2 in Appendix A of this report. The Boring and Trench Logs, which illustrate the conditions encountered at the boring and trench locations, as well as the results of some of the laboratory testing, are included in Appendix B.

### 4.2 Geotechnical Conditions

#### Manure

Manure was present at the ground surface, within the cattle pen at Trench No. T-3, with a thickness of 1 to 2± inches below the existing site grades.

#### Artificial Fill

Artificial fill soils were encountered at the ground surface at Boring Nos. B-3 through B-6, and Trench Nos. T-1, T-2, T-4 and T-5, extending to depths of ½ to 3± feet below the existing site grades. The fill soils generally consist of very loose to medium dense silty fine sands to fine sandy silts with varying medium to coarse sand and fine to gravel content. The fill soils possess a disturbed appearance, resulting in their classification as artificial fill.

## Alluvium

Native alluvium was encountered at the ground surface at Boring Nos. B-1 and B-2, beneath the manure at Trench No. T-3, and beneath the fill soils at the remaining boring and trench locations, extending to at least the maximum depth explored of 25± feet below the existing site grades. The near-surface alluvial soils generally consist of loose to medium dense fine sandy silts to silty fine sands, with varying medium sand and clay content, and occasional fine sands, with varying silt content, extending to depths of 4½ to 10± feet. At greater depths and extending to the maximum depth explored of 25± feet, the alluvial soils generally consist of medium stiff to stiff fine sandy clays, clayey silts, and silty clays, and occasional fine sands, with varying silt content. Boring No. B-2 encountered a medium dense layer consisting of silty fine to coarse sands at depths of 12 to 17± feet. Occasional very stiff to hard silty clay strata were encountered at depths between 8½ to 17± feet.

## Groundwater

Free water was not encountered during the drilling of any of the borings nor during the excavation of the trenches. Based on the lack of any water within the borings and trenches, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of 25± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. Recent water level data was obtained from the California State Water Resources Control Board, GeoTracker, website, <https://geotracker.waterboards.ca.gov/>. The closest monitoring well in this database is located 200± feet from the southwestern corner of the subject site. Water level readings within this monitoring well indicates a high groundwater level of 83± feet below the ground surface, in April 2016.

## 5.0 LABORATORY TESTING

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The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

### Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. The field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring and Trench Logs and are periodically referenced throughout this report.

### Dry Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring and Trench Logs.

### Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-8 in Appendix C of this report.

### Soluble Sulfates

Representative samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of our soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

<u>Sample Identification</u>	<u>Soluble Sulfates (%)</u>	<u>Sulfate Classification</u>
B-6 @ 0 to 5 feet	0.033	Not Applicable (S0)
T-3 @ 0 to 5 feet	0.049	Not Applicable (S0)



### Corrosivity Testing

Representative bulk samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of electrical resistivity, pH, and chloride concentrations. The resistivity of the soils is a measure of their potential to attack buried metal improvements such as utility lines. The results of the resistivity and pH testing are presented below:

<u>Sample Identification</u>	<u>Resistivity (ohm-cm)</u>	<u>pH</u>	<u>Chlorides (mg/kg)</u>
B-6 @ 0 to 5 feet	920	7.6	25
T-3 @ 0 to 3 feet	282	7.8	897

### Organic Content Testing

Selected soil samples have been tested to determine their organic content, in accordance with ASTM Test Method 2974. The results of the testing are as follows:

<u>Sample Identification</u>	<u>Organic Content (%)</u>
T-1 @ 0 to 6 inches	6.2
T-1 @ 6 to 12 inches	4.1
T-2 @ 0 to 6 inches	5.1
T-2 @ 6 to 12 inches	5.3
T-3 @ 0 to 6 inches	5.1
T-3 @ 6 to 12 inches	2.8
T-3 @ 12 to 18 inches	3.7
T-3 @ 18 to 24 inches	4.5

### Expansion Index

The expansion potential of the on-site soils was determined in general accordance with ASTM D-4829 as required by the California Building Code (CBC). The testing apparatus is designed to accept a 4-inch diameter, 1-in high, remolded sample. The sample is initially remolded to 50± 1 percent saturation and then loaded with a surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The results of the EI testing are as follows:

<u>Sample Identification</u>	<u>Expansion Index</u>	<u>Expansive Potential</u>
B-1 @ 0 to 5 feet	0	Non-expansive
T-3 @ 0 to 3 feet	2	Very Low

### Maximum Dry Density and Optimum Moisture Content

A representative bulk sample was tested to determine its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per

ASTM D-1557, and are presented on Plates C-9 in Appendix C of this report. This test is generally used for comparison with the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

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Based on the results of our review, field exploration, laboratory testing, and geotechnical analysis, the proposed development, which will consist of a new commercial/industrial development, is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations. The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record.

Based on the preliminary nature of this investigation, further geotechnical investigation will be required prior to construction of the proposed development. The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

### 6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site-specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

#### Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.

#### Seismic Design Parameters

The California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2016 edition of the California Building Code (CBC). However, it is also possible that the proposed development may be designed using the 2019 CBC, which will be adopted on January 1, 2020. Therefore, this report provides design parameters for both the 2016 CBC and the 2019 CBC. Other design consultants should verify the version of the code under which the proposed development will be submitted.

The 2016 and 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website [www.seismicmaps.org](http://www.seismicmaps.org). This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-10 and ASCE 7-16, upon which the 2016 CBC and 2019 CBC are based, respectively. The application utilizes a database of risk-targeted maximum considered earthquake ( $MCE_R$ ) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plates E-1A (2016 CBC) and E-1B (2019 CBC) in Appendix E of this report. Based on this output, the following parameters may be utilized for the subject site:

#### 2016 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	$S_s$	1.500
Mapped Spectral Acceleration at 1.0 sec Period	$S_1$	0.600
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	$S_{MS}$	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	$S_{M1}$	0.900
Design Spectral Acceleration at 0.2 sec Period	$S_{DS}$	1.000
Design Spectral Acceleration at 1.0 sec Period	$S_{D1}$	0.600

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped  $S_1$  value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that **"In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites."** Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.8.4 applies to the proposed structures at this site. However, the structural engineer should verify that this exception is applicable to the proposed structures. **Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients ( $F_a$  and  $F_v$ ) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.**

## 2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped $MCE_R$ Acceleration at 0.2 sec Period	$S_s$	1.661
Mapped $MCE_R$ Acceleration at 1.0 sec Period	$S_1$	0.595
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	$S_{MS}$	1.661
Site Modified Spectral Acceleration at 1.0 sec Period	$S_{M1}$	1.014
Design Spectral Acceleration at 0.2 sec Period	$S_{DS}$	1.107
Design Spectral Acceleration at 1.0 sec Period	$S_{D1}$	0.676

It should be noted that the site coefficient  $F_v$  and the parameters  $S_{M1}$  and  $S_{D1}$  were not included in the [SEAOC/OSHPD Seismic Design Maps Tool](#) output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of  $S_1$  obtained from the [Seismic Design Maps Tool](#), assuming that a site-specific ground motion hazards analysis is not required for the proposed buildings at this site.

### Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean ( $d_{50}$ ) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

Research of the San Bernardino County Land Use Services website indicates that the subject site is not located within a zone of liquefaction susceptibility. In addition, the subsurface conditions at the boring locations are not considered to be conducive to liquefaction. Based on the mapping performed by San Bernardino County and the conditions encountered at the boring and trench locations, liquefaction is not considered to be a design concern for this project.

### 6.2 Geotechnical Design Considerations

#### General

The active cattle pen areas are covered with manure at the ground surface, with thicknesses of about 1 to 2± inches, where encountered at the trench locations. All of the manure and any organic topsoil should be removed and exported from the site. Additionally, some of soils in the upper 24± inches, located beneath the manure and topsoil, possess organic contents greater

than 2 percent. Based on our experience with other former dairy and agricultural projects located in the city of Ontario, we understand that the city of Ontario requires that soils used as fill possess organic contents of less than 2 percent. It may be feasible to use soils possessing organic contents greater than 2 percent in structural fills, provided that they are cleaned of highly organic materials and can be blended with the underlying soils in order to reduce the organic content to less than 2 percent throughout. It may be necessary to export the highly organic materials off-site or use them in non-structural planter areas of the site.

The subject site is partially underlain by surficial fill soils, extending to depths of up to 3± feet. These fill soils vary in strength and composition. Furthermore, the existing undocumented fill and near-surface alluvium within the upper 10± feet possess variable strengths and variable consolidation characteristics.

Based on their variable strengths, the existing fill soils are considered to represent undocumented fill. They are therefore not considered suitable for support of new structures. Remedial grading will be necessary within the proposed building areas in order to remove and replace these undocumented fill soils as well as near-surface, variable strength alluvial soils as compacted structural fill.

#### Settlement

The recommended remedial grading will remove the existing undocumented fill soils as well as a portion of the near-surface native alluvium, and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant load increases from the foundations of the new structures. Provided that the recommended remedial grading is completed, the post-construction static settlements of the proposed structures are expected to be within tolerable limits.

#### Soluble Sulfates

The results of the soluble sulfate testing, as discussed in Section 5.0 of this report, indicate soluble sulfate concentrations of 0.033 and 0.049 percent. These concentrations are considered to be negligible with respect to the American Concrete Institute (ACI) Publication 318-05 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted during the design-level geotechnical investigation and at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at the proposed building pad grades.

#### Corrosion Potential

The results of the electrical resistivity and pH testing indicate that two samples of the on-site soils have resistivities of 282 and 960 ohm-cm and pH values of 7.6 and 7.8. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors that enter into the evaluation procedure. Relative soil moisture content as well as redox potential and sulfides are also included. Although redox potential and sulfide testing

were not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure, the on-site soils are considered to be severely corrosive to ductile iron pipes and other buried metal improvements. Therefore, it is expected that polyethylene encasement will be required for iron pipes. If a more detailed evaluation is desired, redox potential and sulfide content should be determined for the on-site soils. Since SCG does not practice in the area of corrosion engineering, it is recommended that the client contact a corrosion engineer to provide a more thorough evaluation. SCG also recommends additional corrosion testing during the future design-level geotechnical investigation.

The results of the laboratory testing also indicates that selected samples of the on-site soils possess chloride concentrations of 25 and 897 mg/kg. The Caltrans Memo to Designers 10-5, Protection of Reinforcement Against Corrosion Due to Chlorides, Acids and Sulfates, dated June 2010, indicates that soils possessing chloride concentrations greater than 500 ppm are considered to be corrosive. Chlorides present in soils in contact with reinforced concrete can cause corrosion and weakening of steel reinforcement within reinforced concrete. Since SCG does not practice in the area of corrosion engineering, the client should also consult a corrosion engineer regarding the protection of steel reinforcement in reinforced concrete since laboratory testing indicates that the onsite soils possess relatively high chloride concentrations. We expect that it will be necessary for any reinforced concrete in contact with on-site soils that contain chloride concentrations in excess of 500 ppm to possess a reduced water to cement ratio and a higher compressive strength. Additional testing should be performed during the design-level investigation to better define the areas that possess high chloride concentrations.

### Expansion

The near surface soils at this site generally consist of silty sands, sandy silts and fine sands. Laboratory testing indicates that these materials have a very low expansion potential (EI = 0 and 2). Based on these test results, no design considerations related to expansive soils are considered warranted for this site. Please note that expansive clayey soils are present below depths of 4½ to 8½ feet. Therefore, the depth of proposed cuts and fills may affect the exposure of the foundations and floor slabs to expansive soils. It is recommended that additional expansion index testing be conducted during design-level geotechnical investigation and at the completion of rough grading to verify the expansion potential of the as-graded building pads.

### Organic Content

The results of laboratory testing performed on near-surface soils within the active cattle pen areas indicates soils within the upper 24± inches possess organic contents ranging from 2.8 to 6.2 percent.

It is recommended that all manure and any organic topsoil be removed during site stripping. It is expected that grubbing and segregating of the manure in the cattle pens will be performed prior to grading. Any additional organic materials encountered in buried fills should also be segregated during grading and disposed of off-site or utilized in non-structural planter areas throughout the site.

As previously discussed, it may be feasible to use some of the soils from the upper 6 to 24± in structural fills (not including the manure and organic topsoil) provided that these soils are cleaned of all apparent vegetation or highly organic material and thoroughly blended with the inorganic soils from greater depths at the site. Based on our experience with similar projects in the vicinity of the project site, a final mixture containing less than 2 percent organic content is acceptable for the project site. It is recommended that additional organic content testing be conducted during the design-level geotechnical investigation and at the completion of rough grading of the building pads in order to verify that the organic contents of the blended on-site soils are within the acceptable limits. Please note that some off-site disposal of the organic material will likely be required.

### Shrinkage/Subsidence

Based on the results of the laboratory testing, removal and recompaction of the loose to medium dense undocumented fill and near-surface native alluvial soils, extending to depths of 1 to 2± feet, is estimated to result in an average shrinkage of 9 to 14 percent. The native medium dense silty sands and the clayey soils encountered below this layer, extending to depths of 5 to 6± feet, will likely possess an average shrinkage of 5 to 12 percent. The native alluvial soils encountered at greater depths are expected to possess an average shrinkage of 1 to 6 percent. Please note that based on the variation on soil type, in-place densities throughout the subject site, and in-place moisture contents, the local variation of shrinkage ranges from 1 to 14 percent. It should be noted that the potential shrinkage estimate is based on dry density testing performed on small-diameter samples taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.10 feet.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

### Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report. These plans should also be made available prior to performance of the design-level geotechnical investigation.

### 6.3 Preliminary Site Grading Recommendations

The preliminary grading recommendations presented below are based on the design details that were available at the time of this report, and the subsurface conditions encountered at our boring



locations. These recommendations are general in nature, and should be confirmed as part of the design-level geotechnical investigation.

### Site Stripping and Demolition

Initial site stripping should include removal of all manure and any surficial vegetation. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

The proposed development will require demolition of the existing buildings, dairy structures and pavements. Additionally, any existing improvements that will not remain in place for use with the new development should be removed in their entirety. This should include all foundations, floor slabs, utilities, and any other subsurface improvements associated with the existing structures. The existing pavements are not expected to be reused with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into CMB, if desired. Additionally, concrete and asphalt debris may be crushed to 2 to 4-inch particle sizes to be utilized as mechanical stabilization material for very moist subgrade soils.

### Treatment of Existing Soils: Building Pads

Remedial grading will be necessary within the proposed building pad areas to remove all of the existing undocumented fill soils and a portion of the near surface potentially compressible/collapsible alluvial soils in order to provide a uniform blanket of compacted fill upon which to support the proposed structures. Based on the borings we drilled as part of this feasibility study, the fill soils extend to depths of up to 3± feet below ground surface. The actual depth of overexcavation should be refined during the design-level geotechnical investigation. On a preliminary basis, overexcavation to depths of 4 to 6 feet below existing building pad grades and 3 to 4 feet below proposed building pad grades should be anticipated. The overexcavation recommendation within the foundation areas will likely be 2 to 3± feet below foundation bearing grade. Any adverse geologic conditions encountered during the future design-level investigation could result in additional overexcavation requirements.

The overexcavation areas should extend at least 5 feet beyond the building perimeters and foundations, and to an extent equal to the depth of fill below the new foundations. If the proposed structures incorporate any exterior columns (such as for a canopy or overhang) the overexcavation should also encompass these areas.

Based on conditions encountered at the exploratory boring locations, some zones of very moist soils may be encountered at or near the base of the recommended overexcavation. Stabilization of the exposed overexcavation subgrade soils may be necessary. Scarification and air drying of these materials is expected to be sufficient to obtain a stable subgrade. However, if highly unstable soils are identified, and if the construction schedule does not allow for delays associated with drying, mechanical stabilization, usually consisting of coarse crushed stone or geotextile, could be necessary. In this event, the geotechnical engineer should be contacted for supplementary recommendations.

### Treatment of Existing Soils: Retaining Walls and Site Walls

Although not indicated on the site plan, it may be necessary to construct some small retaining walls or site walls at or near the existing surface grade. Overexcavation will also be necessary in these areas to remove the existing fill soils and lower strength alluvium. The overexcavation depth should be expected to be on the order of 2 to 3 feet below proposed foundation bearing grade.

### Treatment of Existing Soils: Parking and Drive Areas

Based on economic considerations, overexcavation of the existing soils in the new parking and drive areas is not considered warranted, with the exception of areas where lower strength, or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking areas. The grading recommendations presented above do not mitigate the extent of undocumented fill and variable density alluvial soils in the parking areas. As such, settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

### Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the CBC and the grading code of the city of Ontario.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

### Imported Structural Fill

All imported structural fill should consist of very low expansive ( $EI < 20$ ), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

### Utility Trench Backfill

In general, all utility trench backfill should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Ontario. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

## 6.4 Construction Considerations

### Excavation Considerations

The near surface soils generally consist of a variety of materials, including sands, silts, and clays. These materials may be subject to minor caving within shallow excavations. Where caving occurs within shallow excavations, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

### Moisture Sensitive Subgrade Soils

The near-surface soils contain appreciable amounts of silt and clay and will become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. In addition, based on their granular content, some of the on-site soils will also be susceptible to erosion. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import of a drier, less moisture sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad areas as well as the need for and/or the thickness of the crushed stone stabilization layer, discussed in Section 6.3 of this report.

## Groundwater

Based on the conditions encountered in the borings and trenches, groundwater is not present within 30± feet of the ground surface. Based on the anticipated depth to groundwater, it is not expected that the groundwater will affect excavations for the foundations or utilities.

## 6.5 Preliminary Foundation Design and Construction Recommendations

Based on the preceding geotechnical design considerations and preliminary grading recommendations, it is assumed that the new buildings will be underlain by newly placed structural fill soils, extending to depths of at least 2 to 3 feet below foundation bearing grade. Based on this subsurface profile, the proposed structures may be supported on conventional shallow foundations.

The foundation design parameters presented below provide anticipated ranges for the allowable soil bearing pressures. These ranges should be refined during the subsequent design-level geotechnical investigation.

### Building Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 to 3,000 lbs/ft<sup>2</sup>.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) to Four (4) No. 5 rebars.

### General Foundation Design Recommendations

The allowable bearing pressures presented above may be increased by one-third when considering short duration wind or seismic loads. Additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

### Estimated Foundation Settlements

Typically, foundations designed in accordance with the preliminary foundation design parameters presented above will experience total and differential settlements of less than 1.0 and 0.5 inches, respectively. A detailed settlement analysis should be conducted as part of the design-level geotechnical investigation, once detailed foundation loading information is available.

### Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 250 to 300 lbs/ft<sup>3</sup>

- Friction Coefficient: 0.25 to 0.30

## 6.6 Preliminary Floor Slab Design and Construction Recommendations

Subgrades which will support new floor slabs should be prepared in accordance with the recommendations contained in the *Site Grading Recommendations* section of this report. Preliminarily, the floors of the proposed structures may be constructed as conventional slabs-on-grades supported on newly placed structural fill. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 to 7 inches.
- Minimum slab reinforcement: Not required for geotechnical considerations due to the very low expansion potential of the near-surface soils. Additional expansion index testing should be performed to confirm this recommendation at the time of the design-level investigation. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.
- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area of the proposed slab which will incorporate such coverings. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.
- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement.

## 6.7 Preliminary Retaining Wall Design and Construction Recommendations

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades and in the dock-high areas of the new buildings. Retaining walls are also expected within the truck dock areas of the proposed buildings. The parameters recommended for use in the design of these walls are presented below.

### Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. The following parameters assume that only the on-site soils will be utilized for retaining wall backfill. The soils within the upper 4½ to 8½± feet generally consist of silty sands, sandy silts, and fine sands. Based on their composition, the on-site soils have been assigned a friction angle of 30 degrees when compacted to 90 percent of the ASTM D-1557 maximum dry density. These design values should be confirmed during the design-level geotechnical investigation. The on-site soils consisting of silty clays and clayey silts are not considered suitable for retaining wall backfill.

The select fill material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal.

#### RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-Site Sands, Silty Sands, and Sandy Silts
Internal Friction Angle ( $\phi$ )		30°
Unit Weight		125 lbs/ft <sup>3</sup>
Equivalent Fluid Pressure:	Active Condition (level backfill)	42 lbs/ft <sup>3</sup>
	Active Condition (2h:1v backfill)	67 lbs/ft <sup>3</sup>
	At-Rest Condition (level backfill)	63 lbs/ft <sup>3</sup>

The walls should be designed using a soil-footing coefficient of friction ranging from 0.25 to 0.30 and an equivalent passive pressure ranging from 250 to 300 lbs/ft<sup>3</sup>. Please note that these values are preliminary and the actual design values will be determined during the design-level geotechnical investigation. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

### Seismic Lateral Earth Pressures

In addition to the lateral earth pressures presented in the previous section, retaining walls which are more than 6 feet in height should be designed for a seismic lateral earth pressure, in accordance with the 2016 CBC. Based on the current site plan, it is not expected that any walls in excess of 6 feet in height will be required for this project. If any such walls are proposed, our office should be contacted for supplementary design recommendations.

### Backfill Material

Retaining wall backfill soils should consist of on-site sands, silty sands, and/or sandy silts, possessing an expansion index less than 20. All backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls, be placed against the face on the back side of the retaining walls. This material should extend from the top of the retaining wall footing to within 1 foot of the ground surface on the back side of the retaining wall. A 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

### Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.
- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

Weep holes or a footing drain will not be required for building stem walls.

## 6.8 Preliminary Pavement Design Parameters

Presented below are preliminary recommendations for pavements that may be required around the perimeters of the proposed structures. Grading and pavement thickness recommendations for these pavement areas should be developed during the design-level geotechnical investigation.

### Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The soils within the upper  $4\frac{1}{2}$  to  $8\frac{1}{2}\pm$  feet below the ground surface generally consist of silty sands, sandy silts and fine sands. These soils are considered to possess fair to good pavement support characteristics with estimated R-values ranging from 30 to 50. The subsequent pavement design is based upon an assumed R-value of 30. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It should be noted that cuts extending to depths greater than  $4\frac{1}{2}\pm$  feet may expose clayey soils that possess lower R-values. Therefore, these pavement design recommendations should be refined during the design-level investigation and after grading plans become available for this project. It is recommended that R-value testing be performed after completion of rough grading.

### Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.



ASPHALT PAVEMENTS (R = 30)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

#### Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R=30)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

## 7.0 GENERAL COMMENTS

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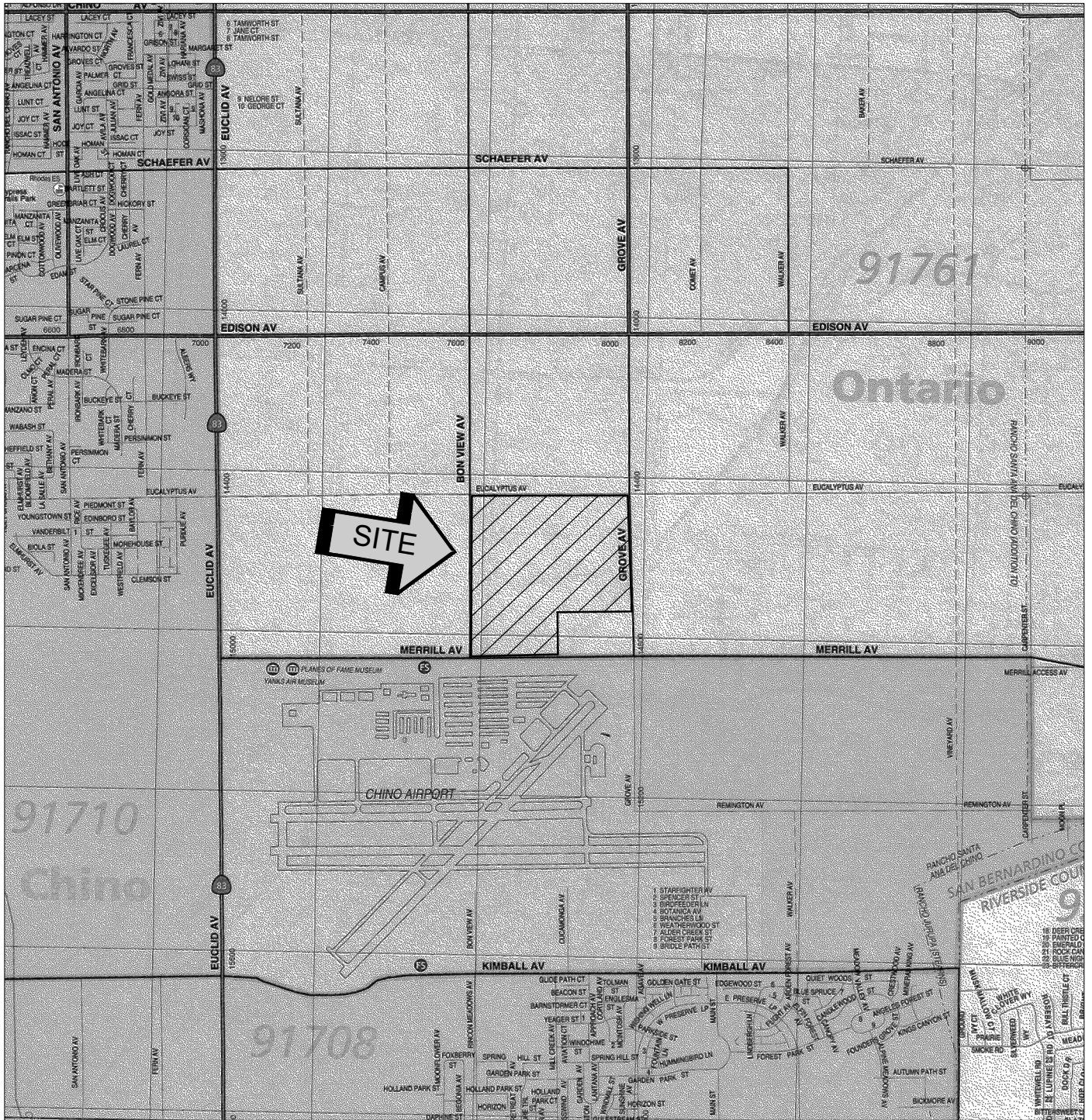
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

# APPENDIX A



SOURCE: SAN BERNARDINO COUNTY  
THOMAS GUIDE, 2013

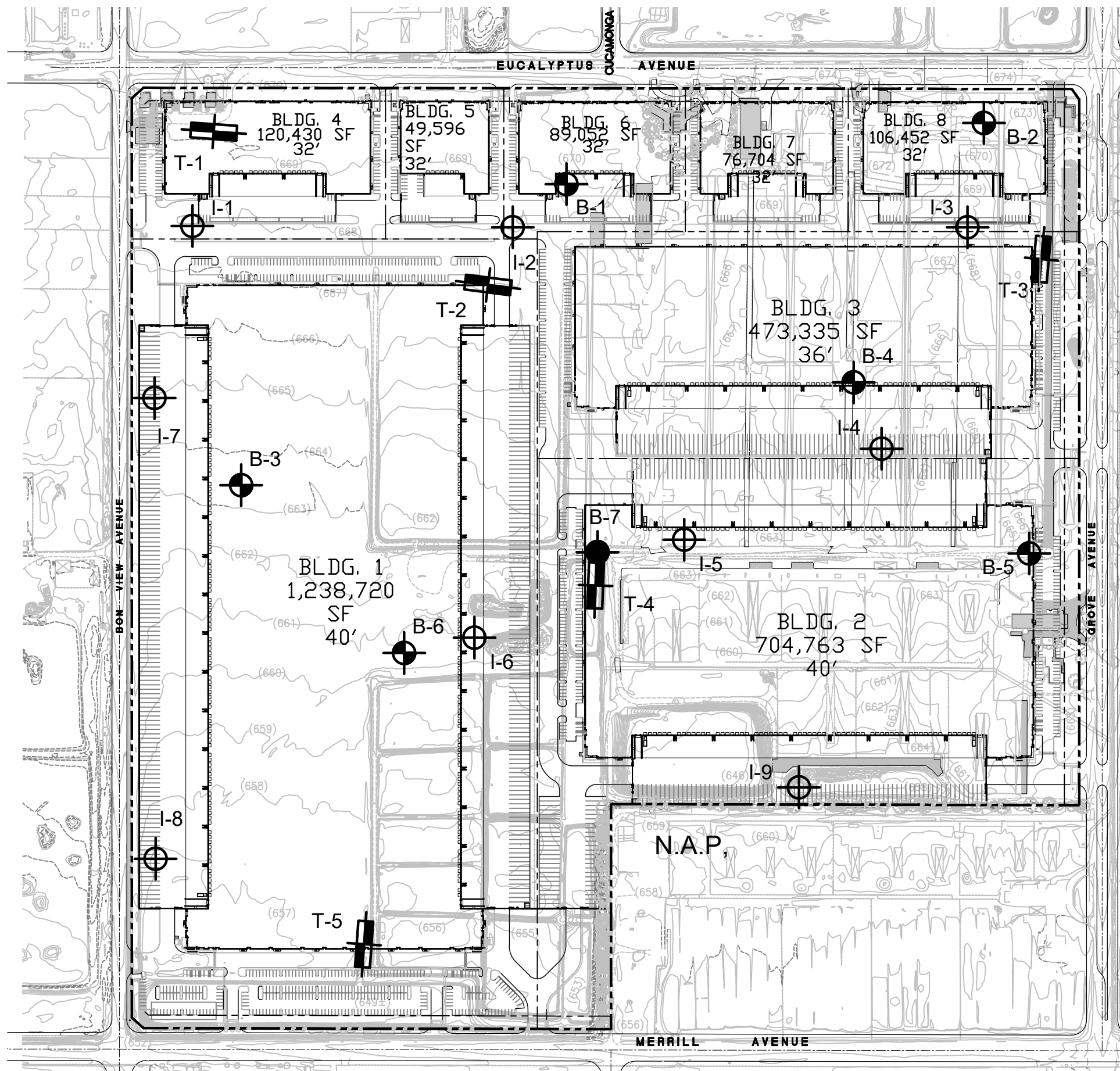
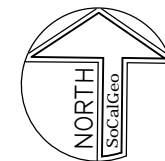


**SITE LOCATION MAP**  
**PROPOSED SOUTH ONTARIO LOGISTICS CENTER**  
**ONTARIO, CALIFORNIA**






SCALE: 1" = 2400'  
 DRAWN: JLL  
 CHKD: RGT  
 SCG PROJECT  
 19G134-2  
**PLATE 1**



**SOUTHERN  
CALIFORNIA  
GEOTECHNICAL**



### GEOTECHNICAL LEGEND






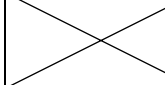


-  APPROXIMATE BORING LOCATION
-  APPROXIMATE TRENCH LOCATION
-  APPROXIMATE EXPLORATORY BORING LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 19G134-1)
-  APPROXIMATE INFILTRATION TEST LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 19G134-1)
-  EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY HPA, INC.  
TOPOGRAPHIC INFORMATION PREPARED BY THIENES ENGINEERING, INC.

<b>BORING AND TRENCH LOCATION PLAN</b>	
PROPOSED SOUTH ONTARIO LOGISTICS CENTER	
ONTARIO, CALIFORNIA	
SCALE: 1" = 300'	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JLL	
CHKD: RGT	
SCG PROJECT 19G134-2	
<b>PLATE 2</b>	

# APPENDIX B

# BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

## COLUMN DESCRIPTIONS

### DEPTH:

Distance in feet below the ground surface.

### SAMPLE:

Sample Type as depicted above.

### BLOW COUNT:

Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

### POCKET PEN.:

Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

### GRAPHIC LOG:

Graphic Soil Symbol as depicted on the following page.

### DRY DENSITY:

Dry density of an undisturbed or relatively undisturbed sample in lbs/ft<sup>3</sup>.

### MOISTURE CONTENT:

Moisture content of a soil sample, expressed as a percentage of the dry weight.

### LIQUID LIMIT:

The moisture content above which a soil behaves as a liquid.

### PLASTIC LIMIT:

The moisture content above which a soil behaves as a plastic.

### PASSING #200 SIEVE:

The percentage of the sample finer than the #200 standard sieve.

### UNCONFINED SHEAR:

The shear strength of a cohesive soil sample, as measured in the unconfined state.

# SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
<p><b>COARSE GRAINED SOILS</b></p> <p>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE</p>	<p><b>GRAVEL AND GRAVELLY SOILS</b></p>	<p>CLEAN GRAVELS</p> <p>(LITTLE OR NO FINES)</p>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
	<p><b>SAND AND SANDY SOILS</b></p>	<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
				<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
		<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES	
				<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES	
			<p><b>SILTS AND CLAYS</b></p> <p>LIQUID LIMIT LESS THAN 50</p>		<b>ML</b>	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
<p><b>SILTS AND CLAYS</b></p> <p>LIQUID LIMIT GREATER THAN 50</p>		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY			
		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY			
<p><b>HIGHLY ORGANIC SOILS</b></p>		<b>OH</b>	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
		<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS





JOB NO.: 19G134-2      DRILLING DATE: 8/29/19      WATER DEPTH: Dry  
 PROJECT: South Logistics Business Center      DRILLING METHOD: Hollow Stem Auger      CAVE DEPTH: 20 feet  
 LOCATION: Ontario, California      LOGGED BY: Joseph Lozano Leon      READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
SURFACE ELEVATION: 669 feet MSL												
					ALLUVIUM: Light Gray Brown fine Sandy Silt to Silty fine Sand, trace fine root fibers, medium dense-damp	102	3					EI = 0 @ 0 to 5 feet
					Light Brown to Brown Silty fine Sand, trace Iron oxide staining, medium dense-damp	110	8					
5			4.5		Gray Brown Clayey Silt, trace fine Sand, trace calcareous veining, hard-very moist	112	17					
			4.5			112	19					
10			4.5			107	21					
			4.5		Light Gray Brown to Gray Brown Silty Clay, trace calcareous veining, very stiff-very moist	104	19					
15			3.0		@ 19 to 20 feet, trace to little fine Sand	104	20					
20					Brown Silty fine Sand, trace medium Sand, trace Iron oxide staining, medium dense-moist to very moist	119	14					
25					Boring Terminated at 25'							

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19



JOB NO.: 19G134-2	DRILLING DATE: 8/29/19	WATER DEPTH: Dry
PROJECT: South Logistics Business Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 20 feet
LOCATION: Ontario, California	LOGGED BY: Joseph Lozano Leon	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 672 feet MSL											
6					ALLUVIUM: Brown Silty fine Sand, trace medium Sand, loose-damp		7				
8							9				
11			3.0		Gray Brown to Dark Gray Brown Silty Clay, trace fine Sand, trace calcareous veining, stiff to very stiff-moist		16				
10			2.0				16				
15					Gray Brown Silty fine to coarse Sand, little Clay, little Iron oxide staining, medium dense-damp		11				
20			2.0		Gray Brown Silty Clay, little calcareous veining, stiff to very stiff-very moist		22				
25			2.5		Brown fine Sandy Clay, little Silt. trace medium to coarse Sand, very stiff-moist to very moist		17				
Boring Terminated at 25'											

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19



JOB NO.: 19G134-2	DRILLING DATE: 8/29/19	WATER DEPTH: Dry
PROJECT: South Logistics Business Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 17 feet
LOCATION: Ontario, California	LOGGED BY: Joseph Lozano Leon	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 663.5 feet MSL											
25					<u>FILL:</u> Light Gray to Gray Silty fine Sand to fine Sandy Silt, trace fine root fibers, medium dense-damp		5				
20					<u>ALLUVIUM:</u> Light Brown Silty fine Sand, trace calcareous veining, trace Iron oxide staining, trace fine root fibers, medium dense-damp		7				
24							6				
9			2.5		Gray Brown Silty Clay, little fine to medium Sand, trace calcareous veining, very stiff-moist		15				
10											
17			3.5		Gray Brown Clayey Silt, trace Iron oxide staining, trace calcareous veining, very stiff-very moist		19				
15											
11			2.0		Light Gray Brown Clayey Silt, stiff-very moist		20				
20											
Boring Terminated at 20'											

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19



JOB NO.: 19G134-2	DRILLING DATE: 8/29/19	WATER DEPTH: Dry
PROJECT: South Logistics Business Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 13 feet
LOCATION: Ontario, California	LOGGED BY: Joseph Lozano Leon	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 668.5 feet MSL											
22					<u>FILL:</u> Light Gray to Gray Silty fine Sand to fine Sandy Silt, trace medium to coarse Sand, medium dense-damp		3				
9					<u>ALLUVIUM:</u> Brown Silty fine Sand, trace Iron oxide staining, loose-moist		11				
5					Gray Brown Silty Clay, trace fine Sand, little calcareous veining, stiff-moist to very moist		18				
7			2.0				18				
10			2.0				18				
15			1.5		Light Gray Brown Clayey Silt, trace fine Sand, abundant Iron oxide staining, stiff-very moist		25				
20			1.5		Gray Brown Clayey Silt, trace fine Sand, trace Iron oxide staining, trace calcareous veining, stiff-very moist		31				
Boring Terminated at 20'											

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19



JOB NO.: 19G134-2	DRILLING DATE: 8/29/19	WATER DEPTH: Dry
PROJECT: South Logistics Business Center	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 17 feet
LOCATION: Ontario, California	LOGGED BY: Joseph Lozano Leon	READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
SURFACE ELEVATION: 666 feet MSL												
				[Dotted Pattern]	<u>FILL:</u> Brown to Dark Brown Silty fine Sand, trace medium to coarse Sand, medium dense-very moist	98	15					
				[Dotted Pattern]	<u>ALLUVIUM:</u> Gray Brown fine Sand, trace to little Silt, loose-damp	97	3					
5	X	23	4.5	[Diagonal Hatching]	Gray Brown Clayey Silt, trace fine Sand, hard-moist	114	14					
	X	21	4.5	[Diagonal Hatching]		109	16					
10	X	12	4.5	[Diagonal Hatching]		114	16					
15	X	8	2.5	[Diagonal Hatching]	Light Gray Brown Silty Clay, little calcareous nodules and veining, stiff to very stiff-very moist	94	26					
20	X	13	2.5	[Diagonal Hatching]	@ 19 to 20 feet, trace fine Sand, little Iron oxide staining	97	26					
25	X	19	2.0	[Diagonal Hatching]	Gray Brown Clayey Silt, trace fine Sand, trace calcareous veining, little Iron oxide staining, stiff to very stiff-very moist	101	25					
Boring Terminated at 25'												

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19



JOB NO.: 19G134-2      DRILLING DATE: 8/29/19      WATER DEPTH: Dry  
 PROJECT: South Logistics Business Center      DRILLING METHOD: Hollow Stem Auger      CAVE DEPTH: 19 feet  
 LOCATION: Ontario, California      LOGGED BY: Joseph Lozano Leon      READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
SURFACE ELEVATION: 660.5 feet MSL												
					<u>FILL</u> : Brown to Dark Brown Silty fine Sand, trace fine root fibers, loose-moist	98	10					
					<u>ALLUVIUM</u> : Light Gray Brown Silty fine Sand, trace Iron oxide staining, medium dense-damp to moist	102	7					
5		12			Gray Brown fine Sandy Silt, little Iron oxide staining, trace to little Clay, medium dense-very moist	110	10					
		20										
		15			Gray Brown Clayey Silt, trace fine Sand, trace Iron oxide staining, stiff to very stiff-very moist	106	19					
10		14	3.0									
		10	2.0		Light Gray to Gray Silty Clay, trace fine Sand, very stiff to hard-very moist	105	22					
15		10	2.0									
		27	4.5		Brown fine Sand, little Silt, trace medium Sand, little Iron oxide staining, medium dense-damp to moist	112	18					
20		27	4.5									
		17	3.0		Brown fine Sand, little Silt, trace medium Sand, little Iron oxide staining, medium dense-damp to moist	19	9					
25		17	3.0									
Boring Terminated at 25'												

TBL\_19G134-2.GPJ\_SOCALGEO.GDT 9/26/19

# SOUTHERN CALIFORNIA GEOTECHNICAL

**TRENCH NO.  
T-1**

JOB NO.: 19G134-2

EQUIPMENT USED: Backhoe

WATER DEPTH: Dry

PROJECT: Proposed South Ontario Logistics Center

LOGGED BY: Scott McCann

SEEPAGE DEPTH: Dry

LOCATION: Ontario, CA

ORIENTATION: N 86 W

READINGS TAKEN: At Completion

DATE: 8-29-2019

TOP OF TRENCH ELEVATION: 669.0 feet msl

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION	GRAPHIC REPRESENTATION
5	b b b b b b	6.2 4.1	3 7 9 8 7 8	A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, trace coarse Sand, trace fine Gravel, abundant fine root fibers, little Organic content, loose - damp B: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, trace fine root fibers, medium dense - damp to moist C: ALLUVIUM: Light Brown Silty fine Sand, medium dense - damp to moist D: ALLUVIUM: Light Gray Brown fine Sand, little Silt, trace medium Sand, medium dense - damp to moist	
10	b		7	E: ALLUVIUM: Gray Brown fine Sandy Clay, trace Silt, trace calcareous veining and nodules, medium stiff - moist	
15	b		11		
			15	Trench Terminated @ 10 feet Bottom of Trench Elevation: 659.0 feet msl	

KEY TO SAMPLE TYPES:  
 b - BULK SAMPLE (DISTURBED)  
 R - RING SAMPLE 2-1/2" DIAMETER  
 (RELATIVELY UNDISTURBED)

**TRENCH LOG**

**PLATE B-7**

# SOUTHERN CALIFORNIA GEOTECHNICAL

**TRENCH NO.  
T-2**

JOB NO.: 19G134-2

EQUIPMENT USED: Backhoe

WATER DEPTH: Dry

PROJECT: Proposed South Ontario Logistics Center

LOGGED BY: Scott McCann

SEEPAGE DEPTH: Dry

LOCATION: Ontario, CA

ORIENTATION: N 83 W

READINGS TAKEN: At Completion

DATE: 8-29-2019

TOP OF TRENCH ELEVATION: 667.0 feet msl

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION	GRAPHIC REPRESENTATION
	b	5.1	2	A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, abundant fine root fibers, little Organic content, loose - dry to damp B: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace to little medium Sand, trace fine root fibers, medium dense - damp C: ALLUVIUM: Light Gray fine Sandy Silt, trace medium Sand, trace calcareous veining, medium dense - damp D: ALLUVIUM: Light Brown Silty fine Sand, trace medium Sand, medium dense - damp E: ALLUVIUM: Gray Brown fine Sandy Silt, little Clay, medium dense - moist	
	b	5.3	4		
	b		4		
	b		4		
	b		4		
5	b		7		
	b		14		
10	b		14		
15				Trench Terminated @ 10 feet Bottom of Trench Elevation: 657.0 feet msl	

KEY TO SAMPLE TYPES:  
 b - BULK SAMPLE (DISTURBED)  
 R - RING SAMPLE 2-1/2" DIAMETER  
 (RELATIVELY UNDISTURBED)



# SOUTHERN CALIFORNIA GEOTECHNICAL

**TRENCH NO.  
T-3**

JOB NO.: 19G134-2

EQUIPMENT USED: Backhoe

WATER DEPTH: Dry

PROJECT: Proposed South Ontario Logistics Center

LOGGED BY: Scott McCann

SEEPAGE DEPTH: Dry

LOCATION: Ontario, CA

ORIENTATION: N 5 E

READINGS TAKEN: At Completion

DATE: 8-29-2019

TOP OF TRENCH ELEVATION: 671.5 feet msl

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION	GRAPHIC REPRESENTATION
	b	5.1	13	A: MANURE: 1 to 2 inches thick B: ALLUVIUM: Gray Silty fine Sand to fine Sandy Silt, trace to little Organic content, medium dense - damp to moist  C: ALLUVIUM: Gray Brown Silty fine Sand, trace medium Sand, loose to medium dense - damp  Trench Terminated @ 4.5 feet Bottom of Trench Elevation: 667.0 feet msl	
	b	2.8	9		
	b	3.7	11		
	b	4.5	12		
	b		13		
	b		7		
5	b		6		
10					
15					

KEY TO SAMPLE TYPES:  
 b - BULK SAMPLE (DISTURBED)  
 R - RING SAMPLE 2-1/2" DIAMETER  
 (RELATIVELY UNDISTURBED)

**TRENCH LOG**

**PLATE B-9**

# SOUTHERN CALIFORNIA GEOTECHNICAL

**TRENCH NO.  
T-4**

JOB NO.: 19G134-2	EQUIPMENT USED: Backhoe	WATER DEPTH: Dry
PROJECT: Proposed South Ontario Logistics Center	LOGGED BY: Scott McCann	SEEPAGE DEPTH: Dry
LOCATION: Ontario, CA	ORIENTATION: N 2 E	READINGS TAKEN: At Completion
DATE: 8-29-2019	TOP OF TRENCH ELEVATION: 660.0 feet msl	

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION	GRAPHIC REPRESENTATION
5	b		14	A: FILL: Light Gray Brown Silty fine to medium Sand, little coarse Sand, trace to little fine Gravel, loose - moist to very moist B: ALLUVIUM: Gray Brown Silty fine Sand, trace to little medium Sand, medium dense - damp to moist C: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, loose to medium dense - moist D: ALLUVIUM: Gray Brown fine Sandy Silt, little Clay, trace calcareous veining, medium dense - very moist E: ALLUVIUM: Light Gray Brown fine Sandy Clay, trace Silt, medium stiff - very moist  Trench Terminated @ 10 feet Bottom of Trench Elevation: 650.0 feet msl	
	b		10		
	b		11		
	b		11		
	b		10		
	b		11		
	b		12		
	b		18		
	b		18		
	b		18		
10					
15					

KEY TO SAMPLE TYPES:  
 b - BULK SAMPLE (DISTURBED)  
 R - RING SAMPLE 2-1/2" DIAMETER  
 (RELATIVELY UNDISTURBED)

# SOUTHERN CALIFORNIA GEOTECHNICAL

**TRENCH NO.  
T-5**

JOB NO.: 19G134-2

EQUIPMENT USED: Backhoe

WATER DEPTH: Dry

PROJECT: Proposed South Ontario Logistics Center

LOGGED BY: Scott McCann

SEEPAGE DEPTH: Dry

LOCATION: Ontario, CA

ORIENTATION: N 4 E

READINGS TAKEN: At Completion

DATE: 8-29-2019

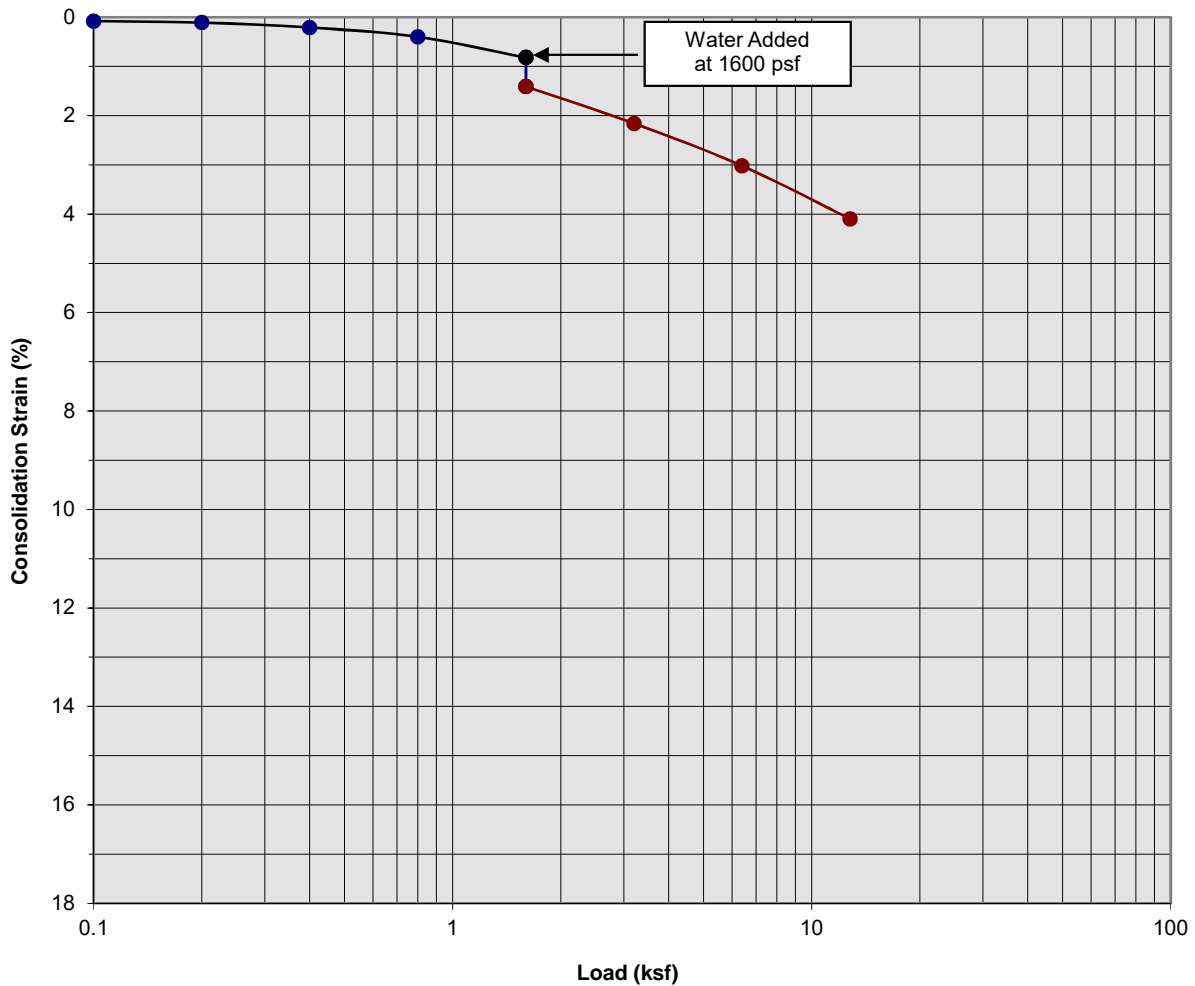
TOP OF TRENCH ELEVATION: 657.0 feet msl

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION	GRAPHIC REPRESENTATION
	b		2	<p>A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, trace coarse Sand, trace fine root fibers, very loose - dry</p> <p>B: ALLUVIUM: Light Brown Silty fine Sand to fine Sandy Silt, trace to little medium Sand, trace calcareous veining, loose to medium dense - damp to moist</p> <p>C: ALLUVIUM: Gray Brown Silty fine Sand, trace to little medium Sand, medium dense - moist to very moist</p> <p>D: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, medium dense - moist</p> <p style="text-align: center;">Trench Terminated @ 10 feet Bottom of Trench Elevation: 647.0 feet msl</p>	<div style="text-align: center;"> <p>N 4 E →</p> <p style="text-align: right;">SCALE: 1" = 5'</p> </div>
	b		10		
	b		10		
	b		11		
	b		11		
	b		13		
5	b		22		
	b		10		
10	b		13		
15					

KEY TO SAMPLE TYPES:  
b - BULK SAMPLE (DISTURBED)  
R - RING SAMPLE 2-1/2" DIAMETER  
(RELATIVELY UNDISTURBED)

# A P P E N D I X C

### Consolidation/Collapse Test Results



Classification: Gray Brown fine Sand, trace to little Silt

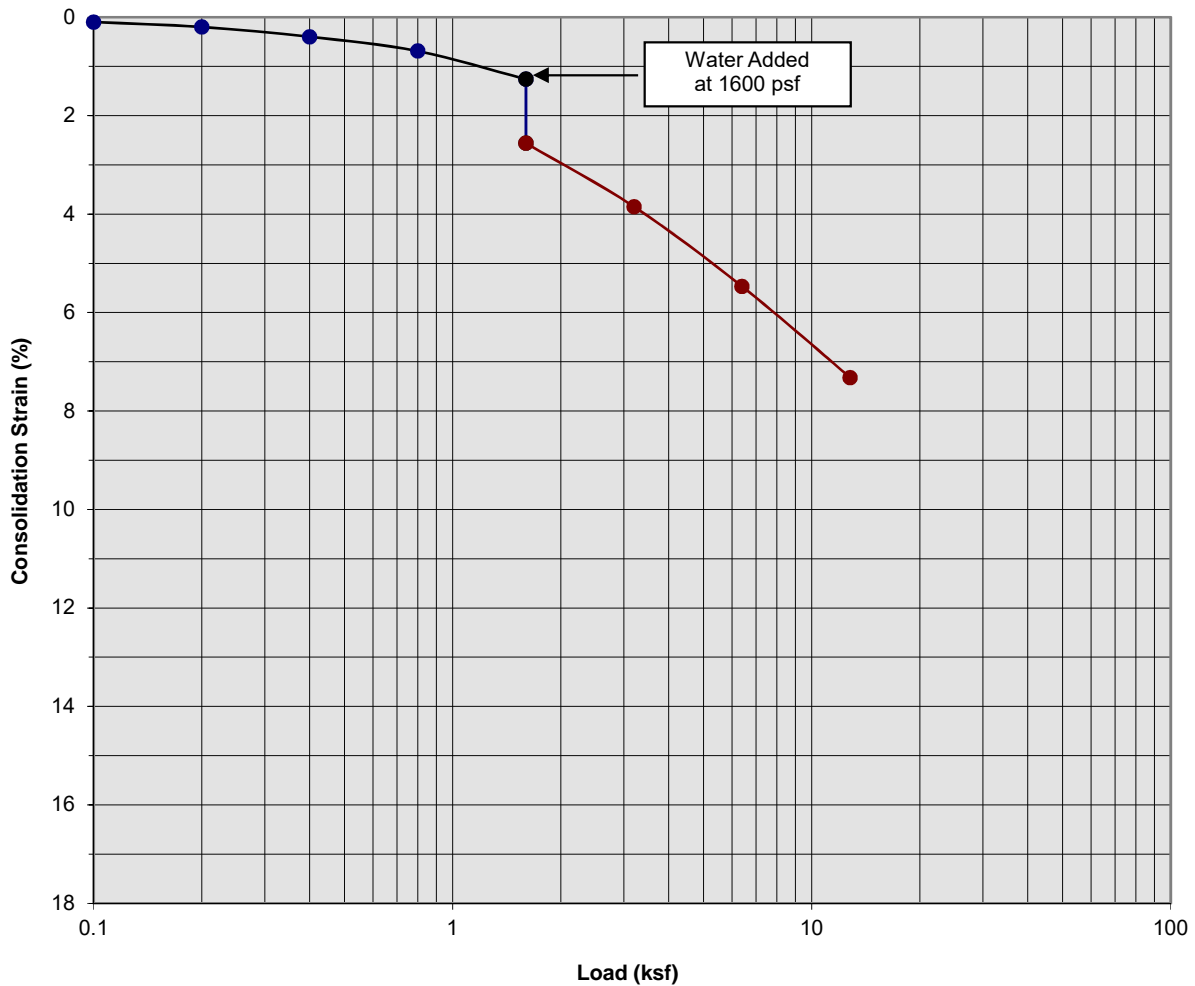
Boring Number:	B-5	Initial Moisture Content (%)	3
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	3 to 4	Initial Dry Density (pcf)	97.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	100.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.59

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 1**



**SOUTHERN CALIFORNIA GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

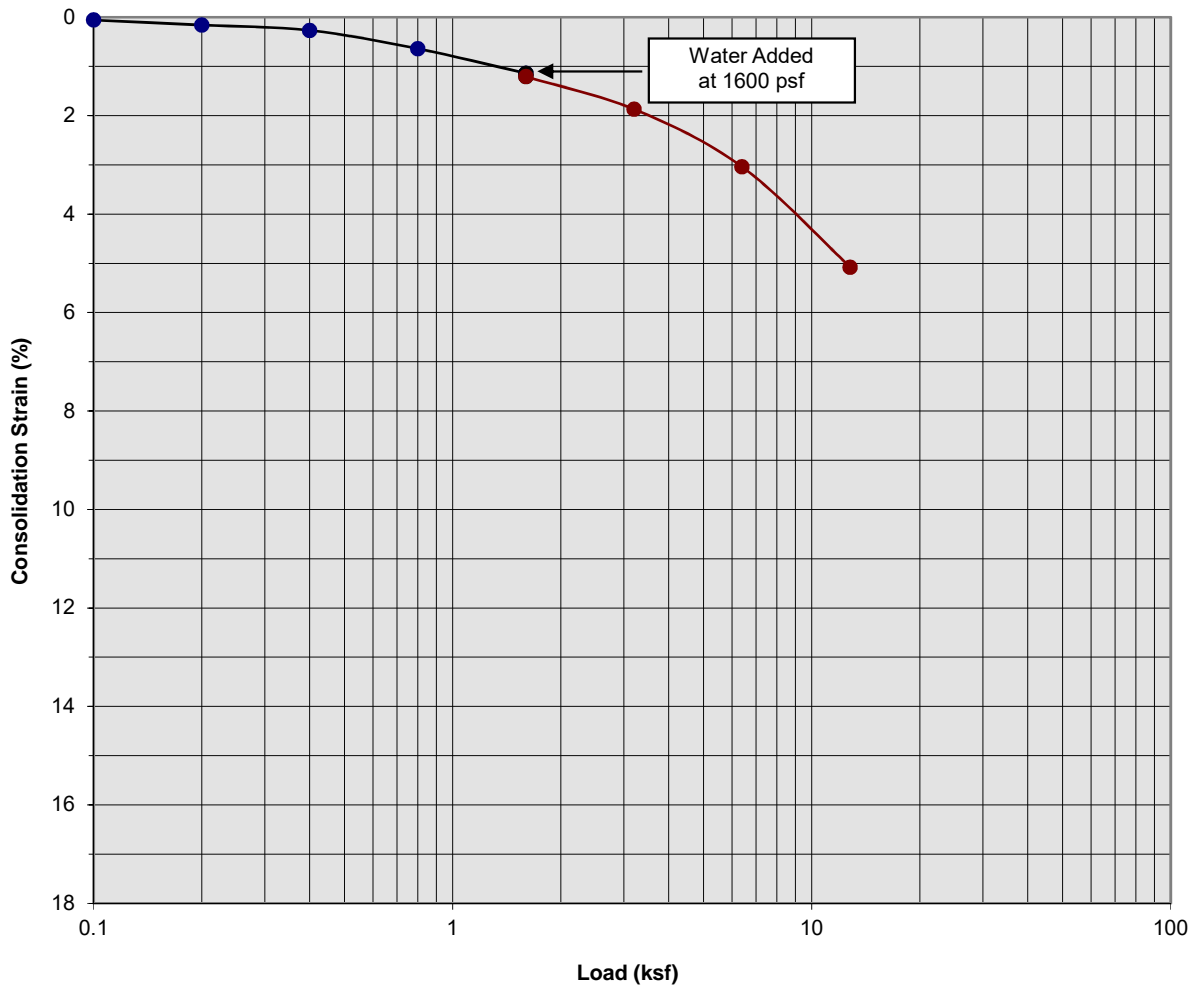
Boring Number:	B-5	Initial Moisture Content (%)	14
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	5 to 6	Initial Dry Density (pcf)	113.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.30

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 2**



**SOUTHERN CALIFORNIA GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

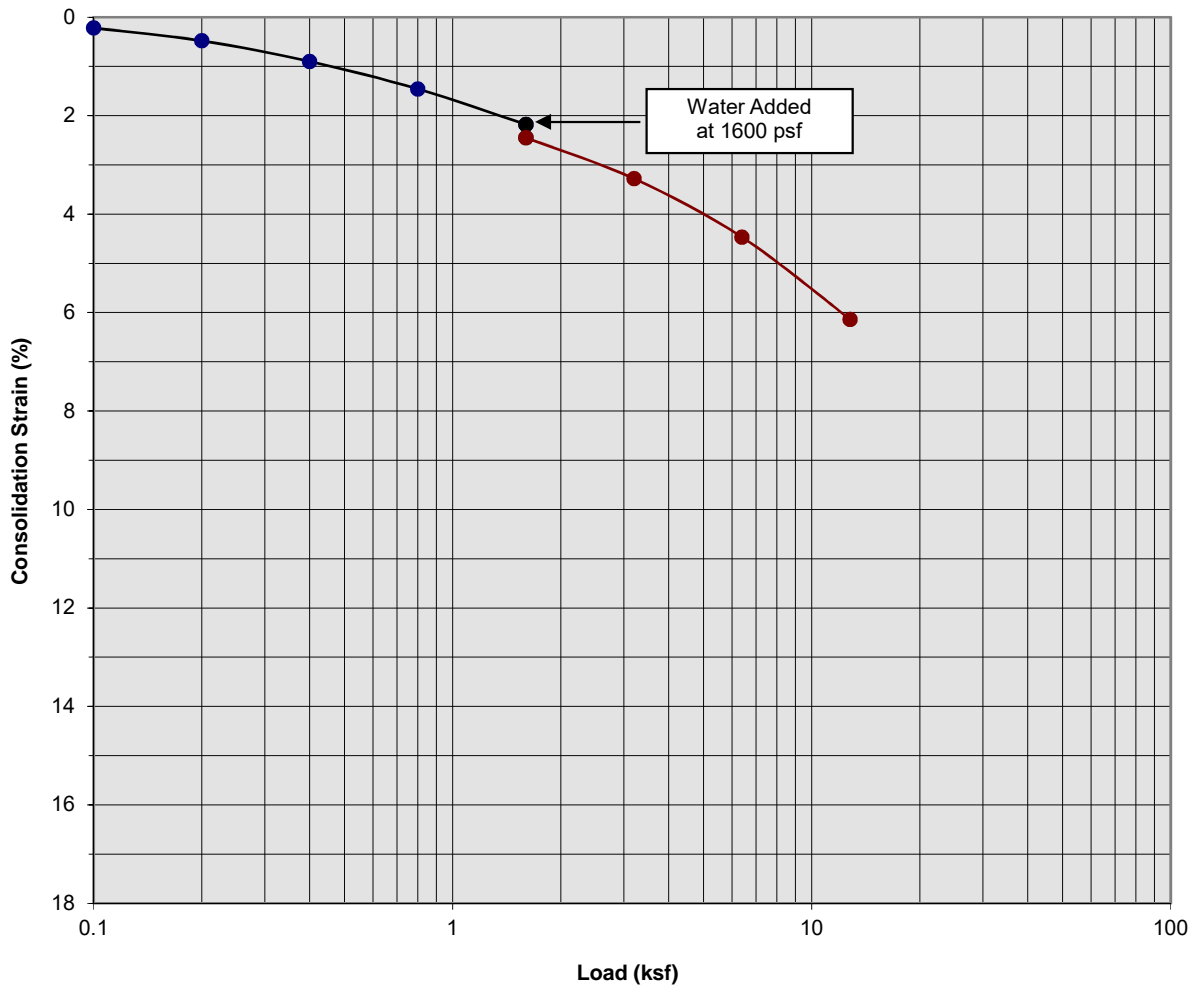
Boring Number:	B-5	Initial Moisture Content (%)	16
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	7 to 8	Initial Dry Density (pcf)	109.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	114.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.07

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 3**



**SOUTHERN  
 CALIFORNIA  
 GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

Boring Number:	B-5	Initial Moisture Content (%)	16
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	9 to 10	Initial Dry Density (pcf)	113.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.27

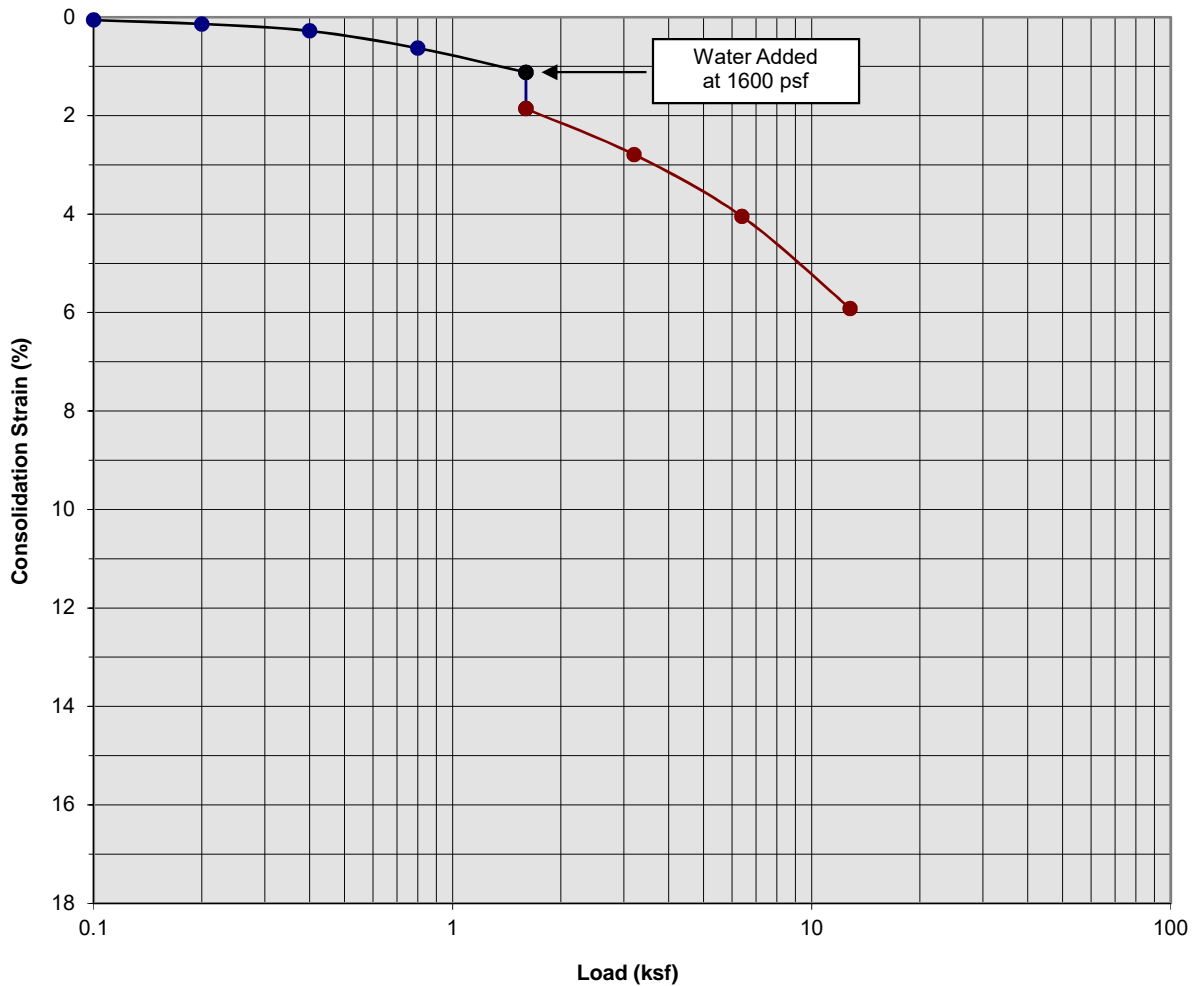
Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 4**



**SOUTHERN  
 CALIFORNIA  
 GEOTECHNICAL**  
*A California Corporation*



### Consolidation/Collapse Test Results



Classification: Light Gray Brown Silty fine Sand

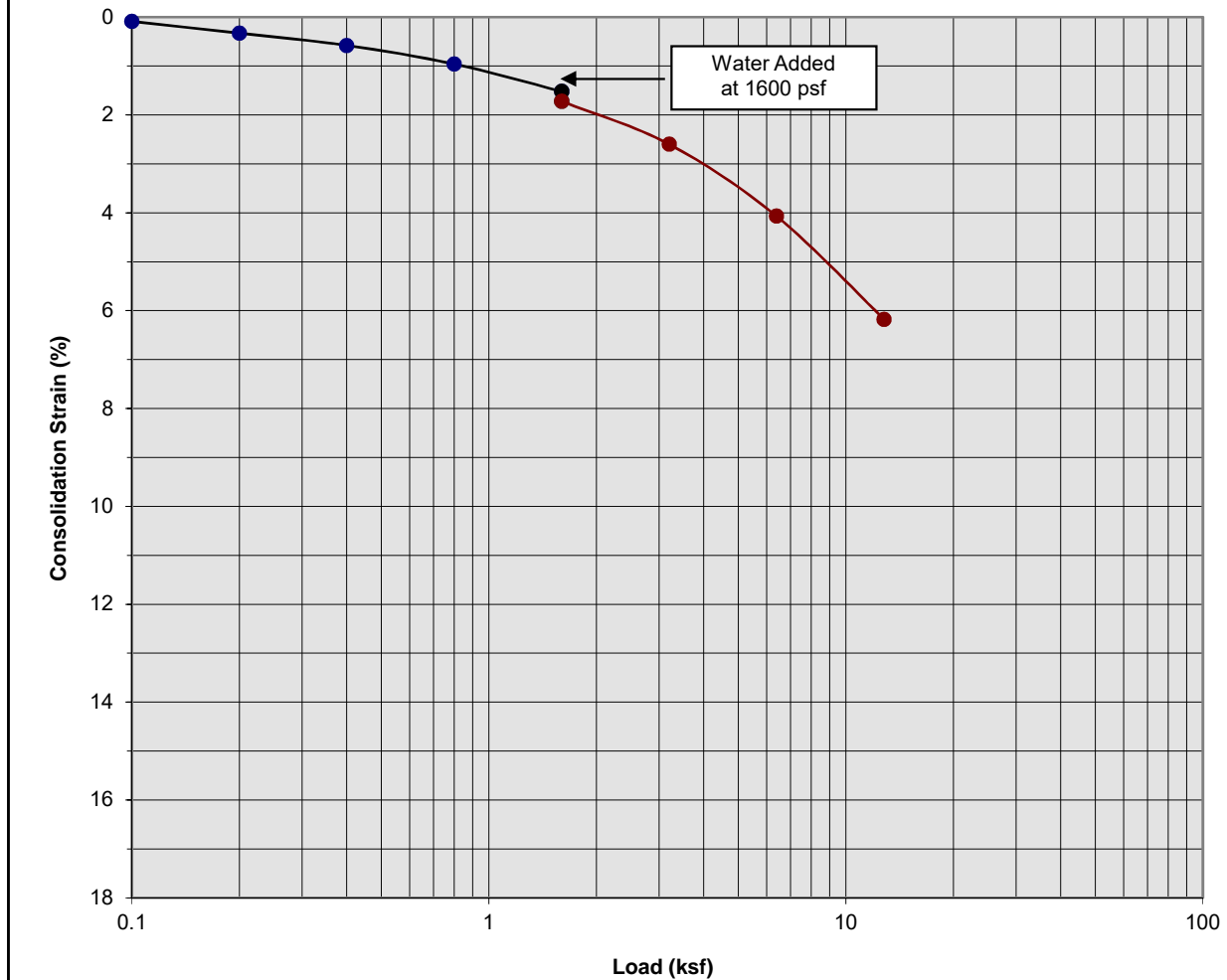
Boring Number:	B-6	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	3 to 4	Initial Dry Density (pcf)	102.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	108.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.74

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 5**



**SOUTHERN CALIFORNIA GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown fine Sandy Silt, trace to little Clay

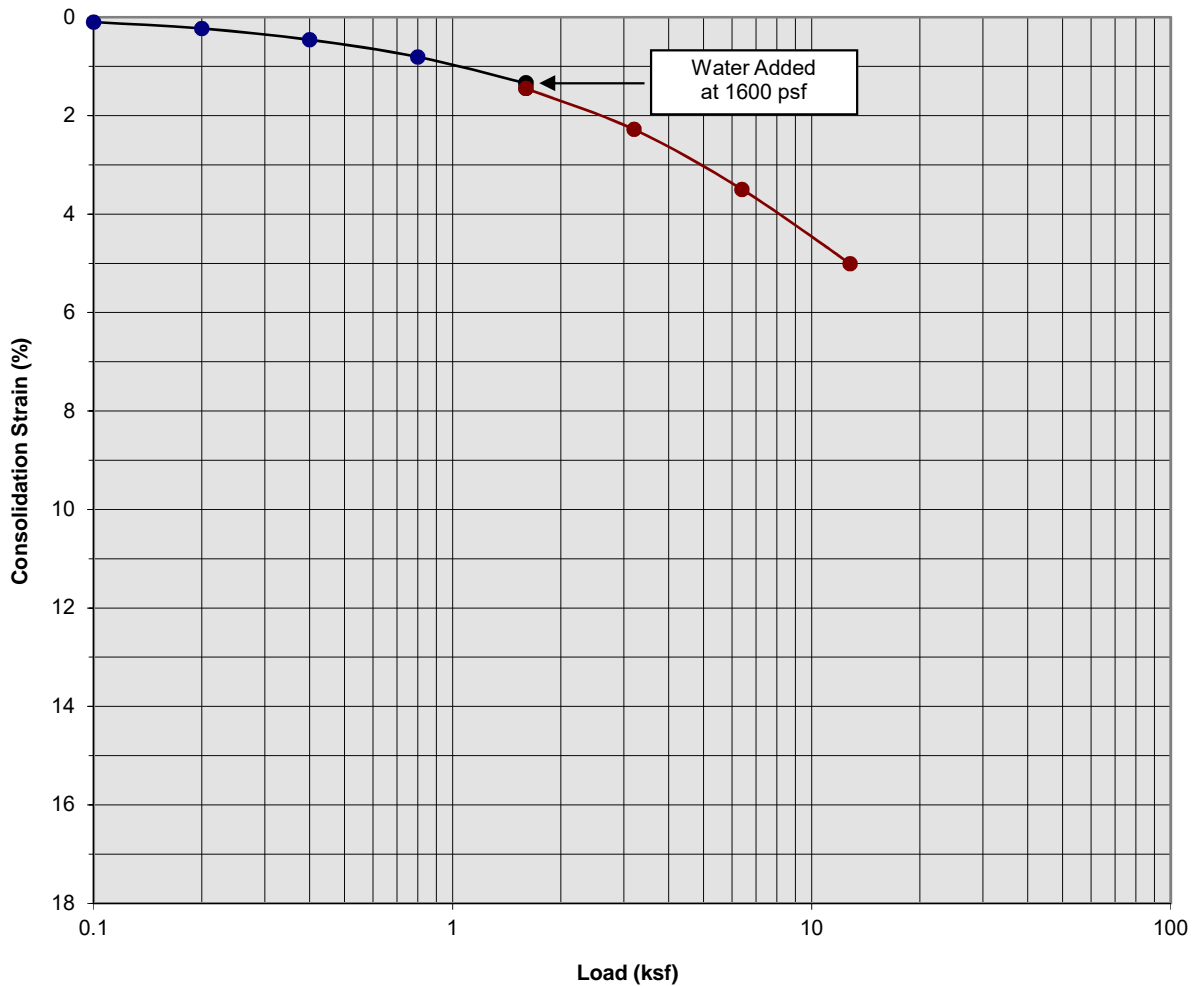
Boring Number:	B-6	Initial Moisture Content (%)	10
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	5 to 6	Initial Dry Density (pcf)	110.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	116.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.20

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 6**



**SOUTHERN  
 CALIFORNIA  
 GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown fine Sandy Silt, trace to little Clay

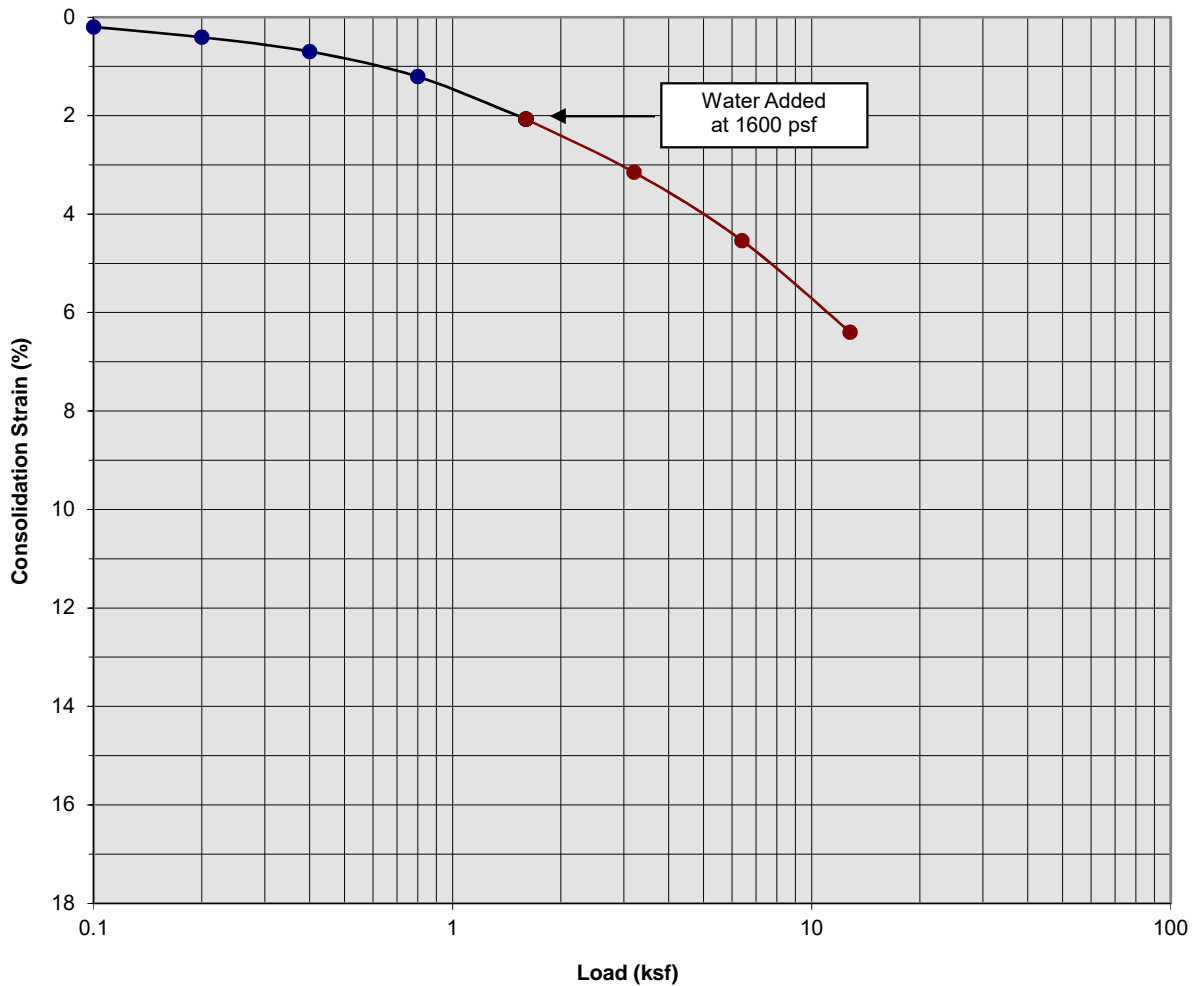
Boring Number:	B-6	Initial Moisture Content (%)	19
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	7 to 8	Initial Dry Density (pcf)	106.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	111.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.11

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 7**



**SOUTHERN CALIFORNIA GEOTECHNICAL**  
*A California Corporation*

### Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

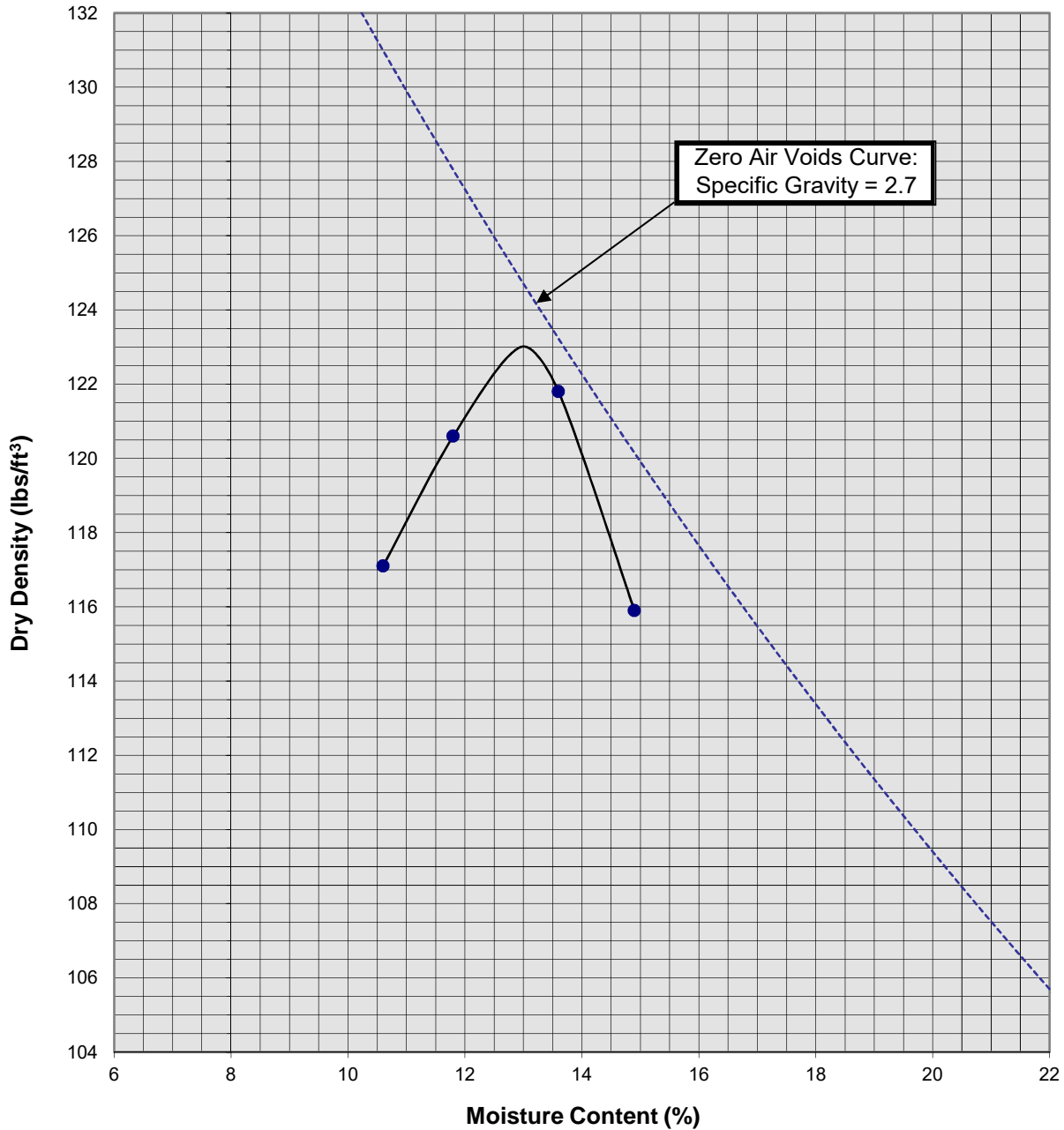
Boring Number:	B-6	Initial Moisture Content (%)	22
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	9 to 10	Initial Dry Density (pcf)	105.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	113.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.00

Proposed South Ontario Logistics Center  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C- 8**



**SOUTHERN  
 CALIFORNIA  
 GEOTECHNICAL**  
*A California Corporation*

### Moisture/Density Relationship ASTM D-1557



Soil ID Number	B-5 @ 0 to 5'
Optimum Moisture (%)	13
Maximum Dry Density (pcf)	123
Soil Classification	Brown to Dark Brown Silty fine Sand, trace medium to coarse Sand

Proposed South Ontario Business Park  
 Ontario, California  
 Project No. 19G134-2  
**PLATE C-9**



**SOUTHERN CALIFORNIA GEOTECHNICAL**  
*A California Corporation*

# APPENDIX

## GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

### General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.
- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.
- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.
- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.
- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.
- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

### Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.
- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.
- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.
- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.
- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.
- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted
- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

#### Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.
- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.
- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.
- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:
  - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.
  - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or



concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.
- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.
- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.
- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.
- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.
- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.
- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.
- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.
- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.
- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.
- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

### Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.
- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.
- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

### Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core
- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.
- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.
- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).
- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.
- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

### Cut Slopes

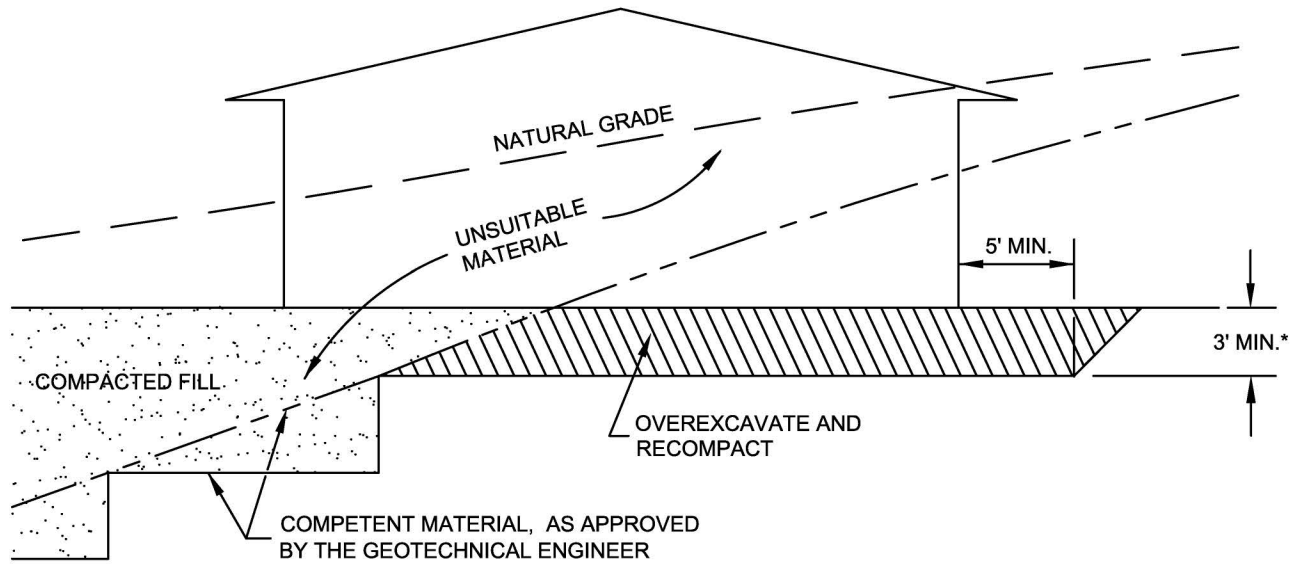
- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.
- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.
- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

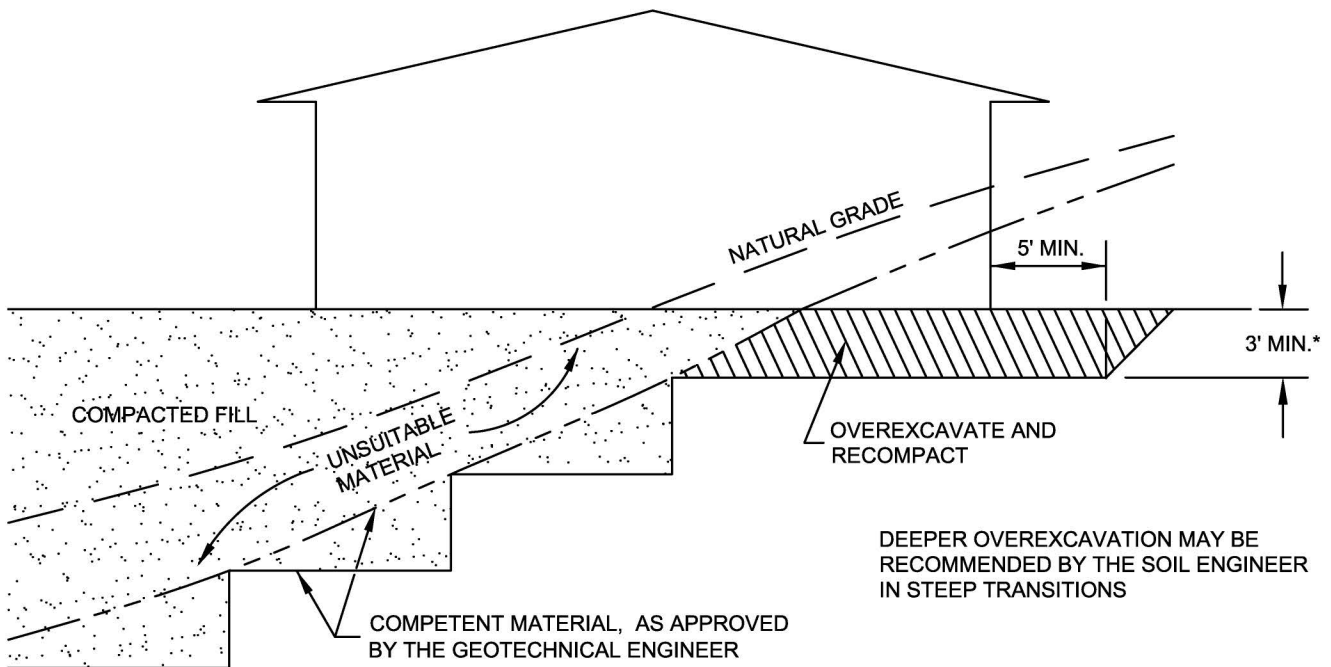
#### Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.
- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean  $\frac{3}{4}$ -inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT

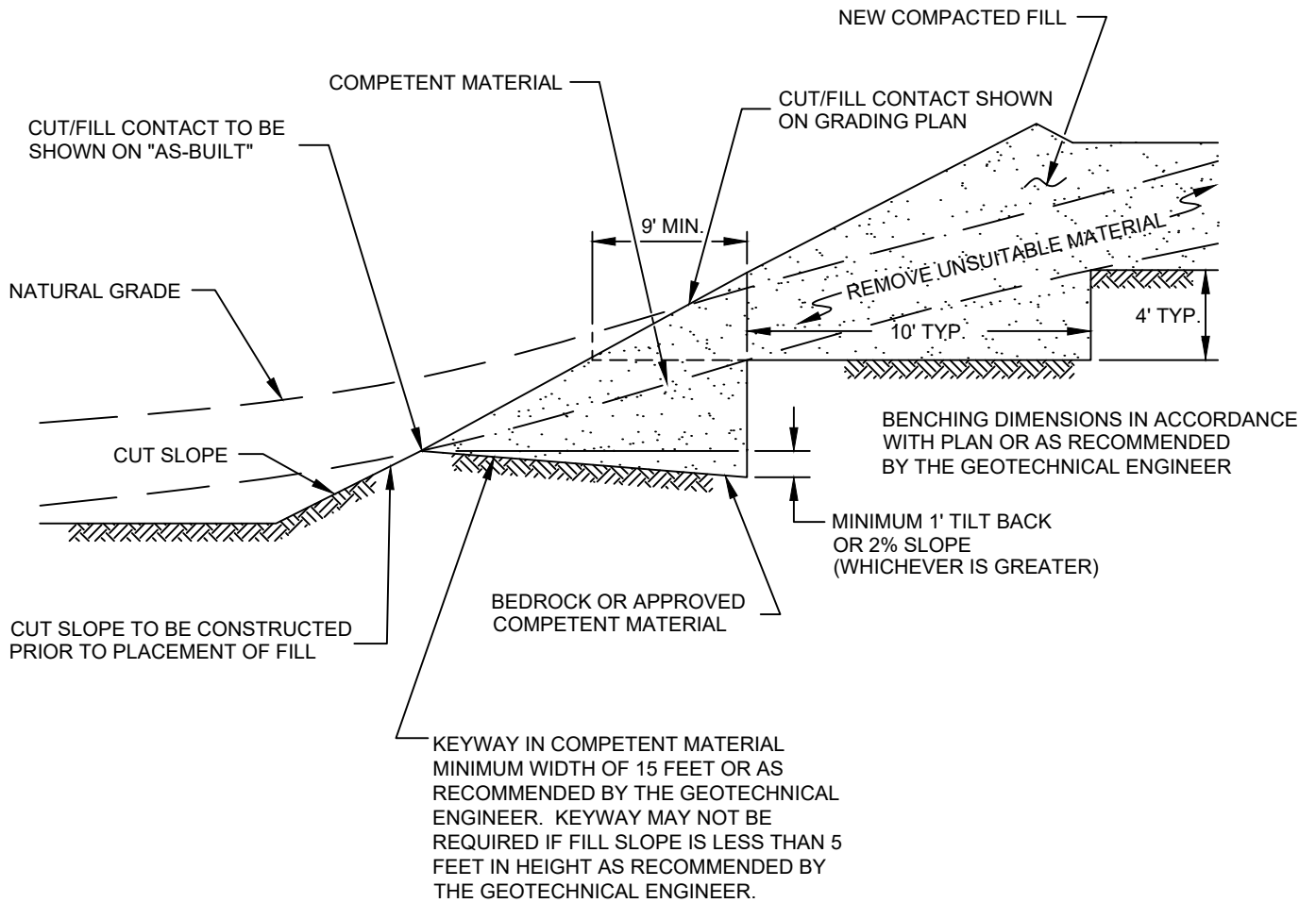



CUT/FILL LOT (TRANSITION)

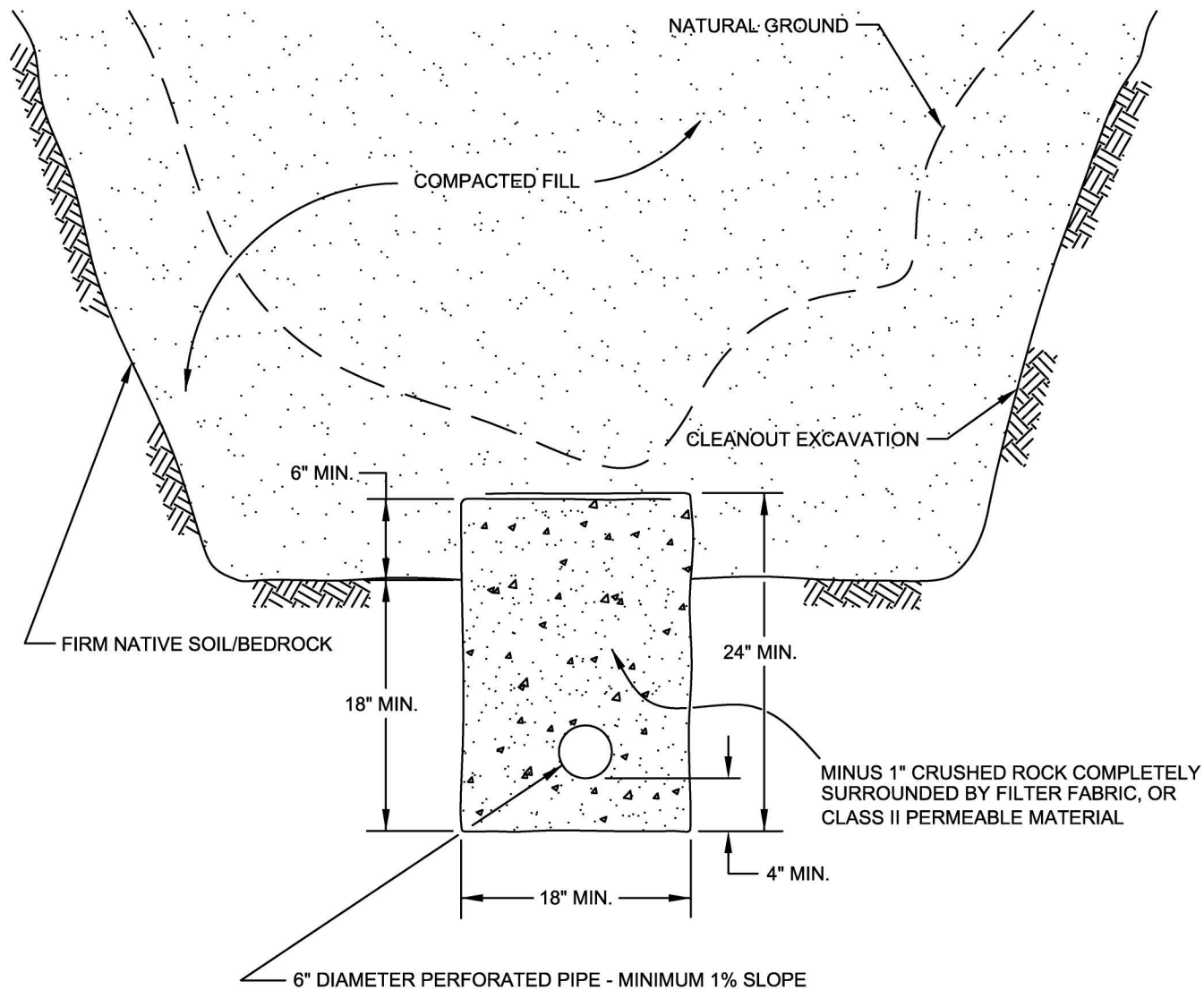


\*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION.  
ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

<b>TRANSITION LOT DETAIL</b>	
<b>GRADING GUIDE SPECIFICATIONS</b>	
NOT TO SCALE	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JAS CHKD: GKM	
<b>PLATE D-1</b>	




<b>FILL ABOVE CUT SLOPE DETAIL</b>	
<b>GRADING GUIDE SPECIFICATIONS</b>	
NOT TO SCALE	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JAS CHKD: GKM	
<b>PLATE D-2</b>	



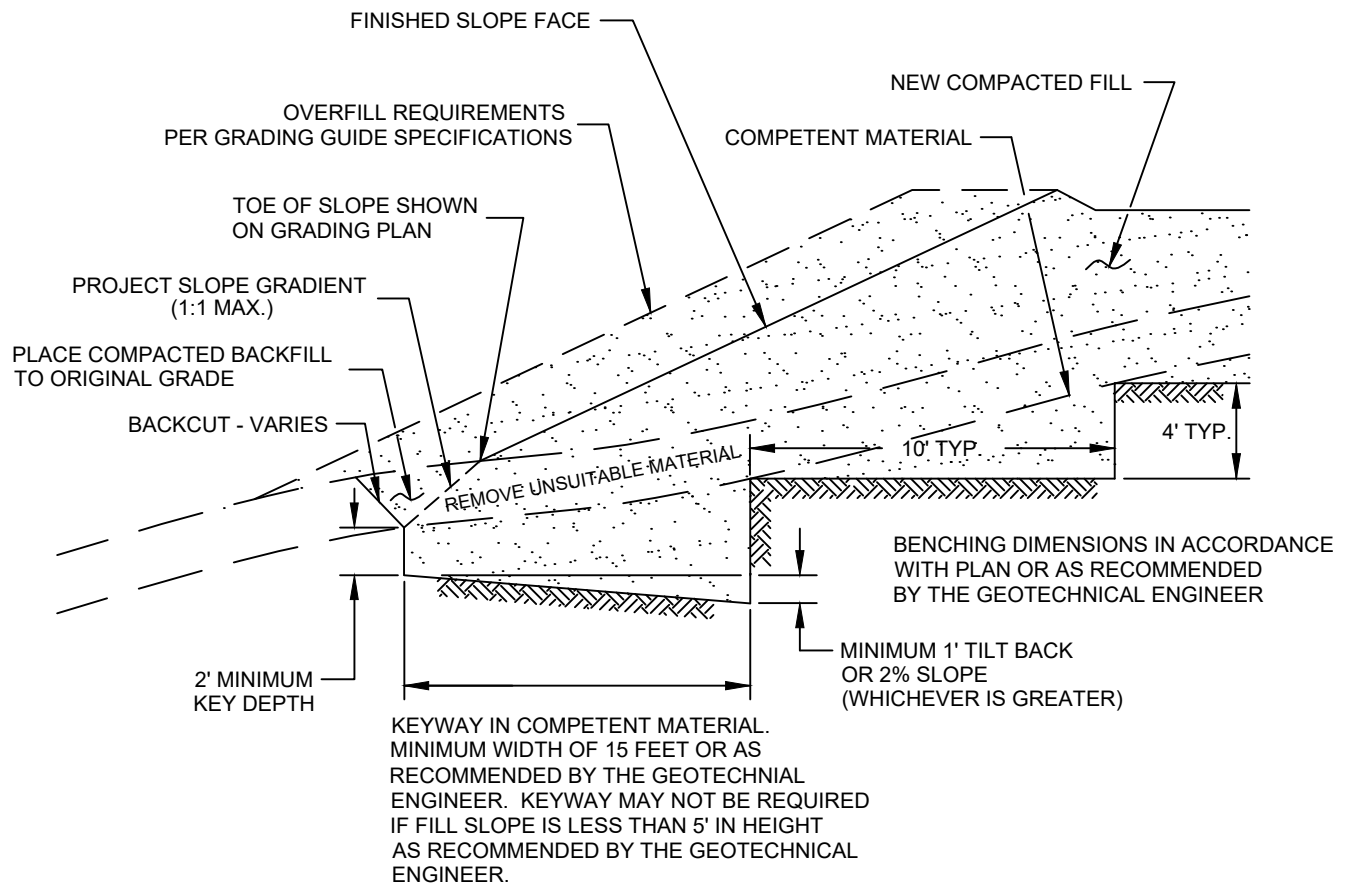
PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

**SCHEMATIC ONLY  
NOT TO SCALE**

<b>CANYON SUBDRAIN DETAIL</b>	
<b>GRADING GUIDE SPECIFICATIONS</b>	
NOT TO SCALE	
DRAWN: JAS CHKD: GKM	
<b>PLATE D-3</b>	

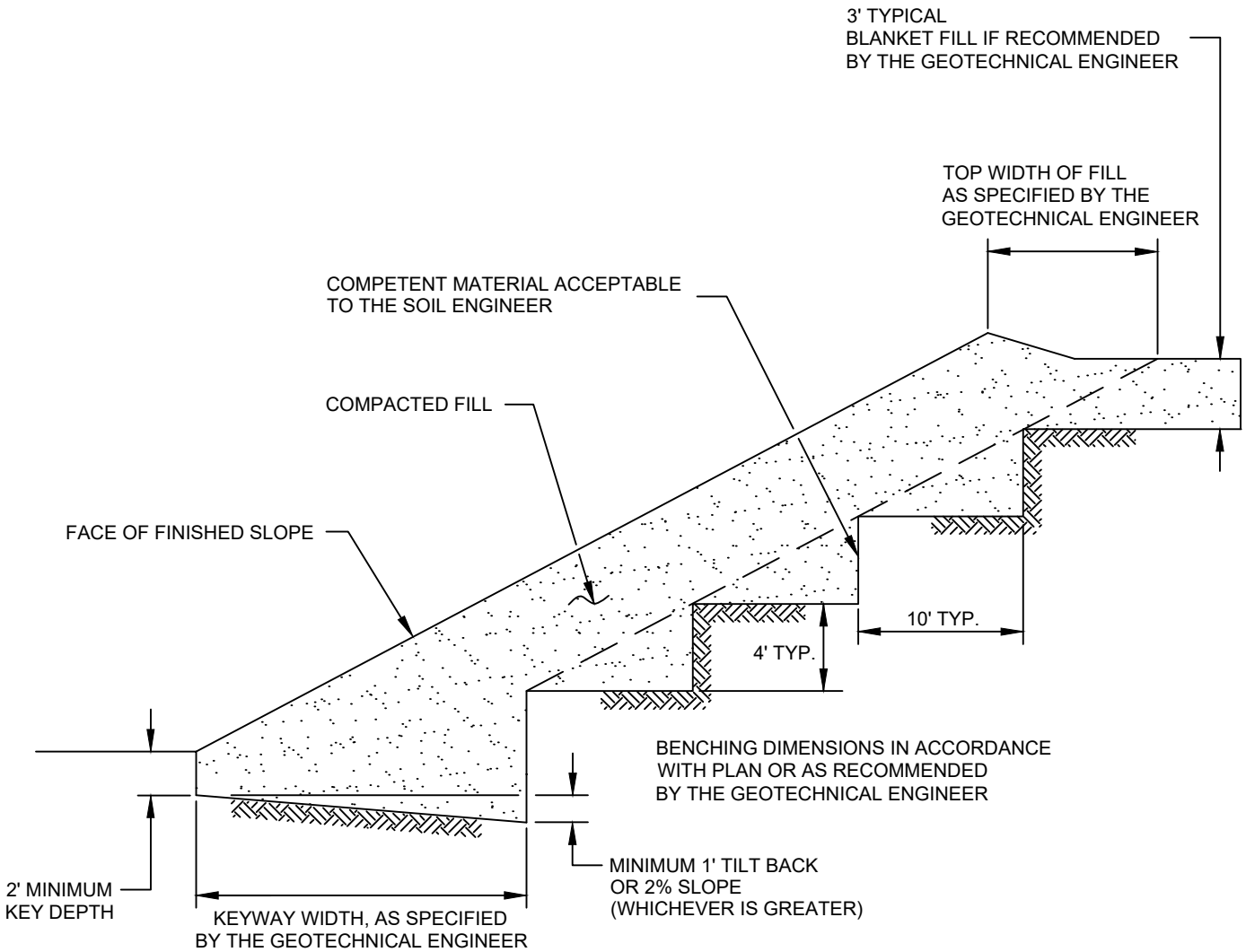



**SOUTHERN CALIFORNIA GEOTECHNICAL**



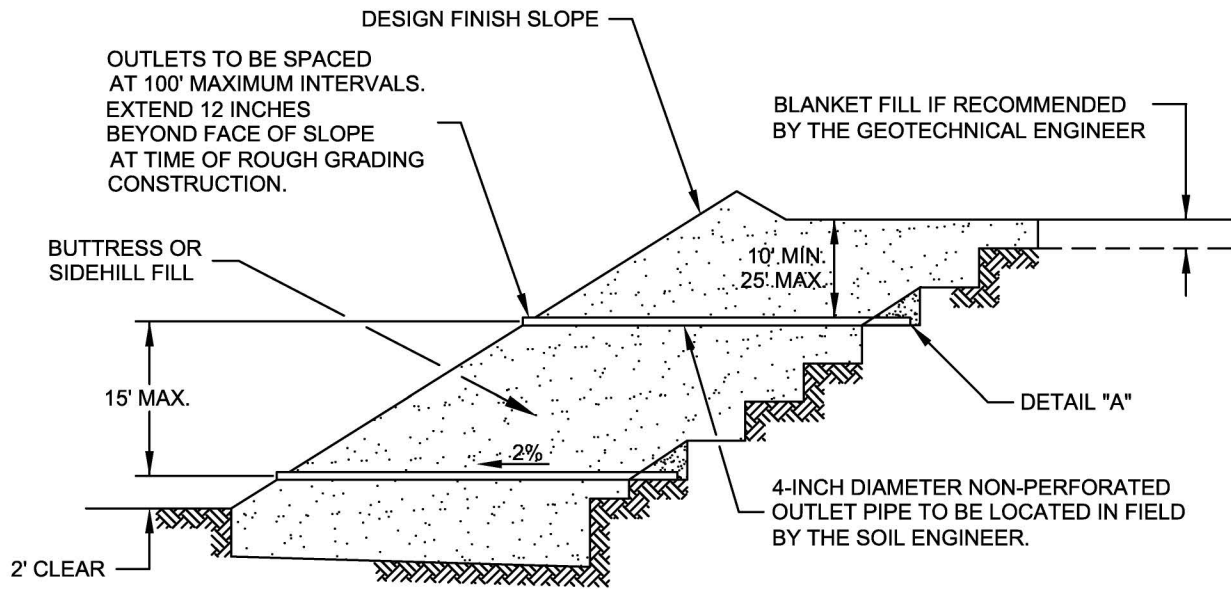
NOTE:  
 BENCHING SHALL BE REQUIRED  
 WHEN NATURAL SLOPES ARE  
 EQUAL TO OR STEEPER THAN 5:1  
 OR WHEN RECOMMENDED BY  
 THE GEOTECHNICAL ENGINEER.

<b>FILL ABOVE NATURAL SLOPE DETAIL</b>	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JAS CHKD: GKM	
PLATE D-4	



<b>STABILIZATION FILL DETAIL</b>	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JAS CHKD: GKM	
<b>PLATE D-5</b>	





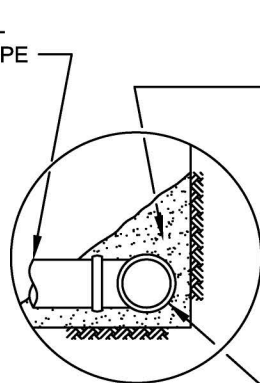
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8
SAND EQUIVALENT = MINIMUM OF 50	

OUTLET PIPE TO BE CONNECTED TO SUBDRAIN PIPE WITH TEE OR ELBOW



DETAIL "A"

FILTER MATERIAL - MINIMUM OF FIVE CUBIC FEET PER FOOT OF PIPE. SEE ABOVE FOR FILTER MATERIAL SPECIFICATION.


ALTERNATIVE: IN LIEU OF FILTER MATERIAL FIVE CUBIC FEET OF GRAVEL PER FOOT OF PIPE MAY BE ENCASED IN FILTER FABRIC. SEE ABOVE FOR GRAVEL SPECIFICATION.

FILTER FABRIC SHALL BE MIRAFI 140 OR EQUIVALENT. FILTER FABRIC SHALL BE LAPPED A MINIMUM OF 12 INCHES ON ALL JOINTS.

MINIMUM 4-INCH DIAMETER PVC SCH 40 OR ABS CLASS SDR 35 WITH A CRUSHING STRENGTH OF AT LEAST 1,000 POUNDS, WITH A MINIMUM OF 8 UNIFORMLY SPACED PERFORATIONS PER FOOT OF PIPE INSTALLED WITH PERFORATIONS ON BOTTOM OF PIPE. PROVIDE CAP AT UPSTREAM END OF PIPE. SLOPE AT 2 PERCENT TO OUTLET PIPE.

NOTES:

- TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: JAS CHKD: GKM	
PLATE D-6	

MINIMUM ONE FOOT THICK LAYER OF LOW PERMEABILITY SOIL IF NOT COVERED WITH AN IMPERMEABLE SURFACE

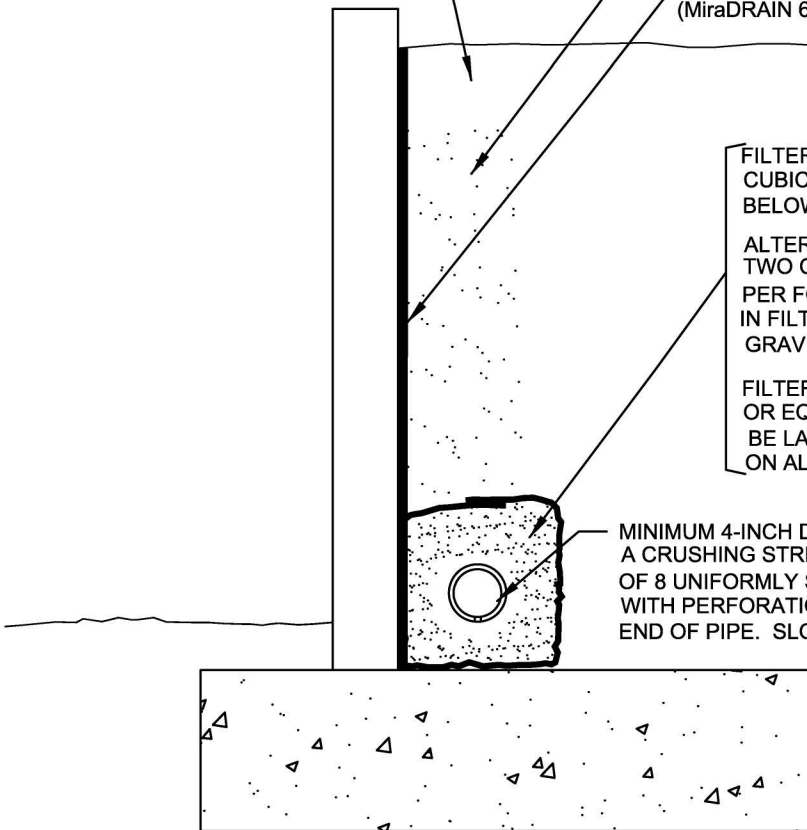
MINIMUM ONE FOOT WIDE LAYER OF FREE DRAINING MATERIAL (LESS THAN 5% PASSING THE #200 SIEVE) OR PROPERLY INSTALLED PREFABRICATED DRAINAGE COMPOSITE (MiraDRAIN 6000 OR APPROVED EQUIVALENT).

FILTER MATERIAL - MINIMUM OF TWO CUBIC FEET PER FOOT OF PIPE. SEE BELOW FOR FILTER MATERIAL SPECIFICATION.

ALTERNATIVE: IN LIEU OF FILTER MATERIAL TWO CUBIC FEET OF GRAVEL PER FOOT OF PIPE MAY BE ENCASED IN FILTER FABRIC. SEE BELOW FOR GRAVEL SPECIFICATION.

FILTER FABRIC SHALL BE MIRAFAI 140 OR EQUIVALENT. FILTER FABRIC SHALL BE LAPPED A MINIMUM OF 6 INCHES ON ALL JOINTS.

MINIMUM 4-INCH DIAMETER PVC SCH 40 OR ABS CLASS SDR 35 WITH A CRUSHING STRENGTH OF AT LEAST 1,000 POUNDS, WITH A MINIMUM OF 8 UNIFORMLY SPACED PERFORATIONS PER FOOT OF PIPE INSTALLED WITH PERFORATIONS ON BOTTOM OF PIPE. PROVIDE CAP AT UPSTREAM END OF PIPE. SLOPE AT 2 PERCENT TO OUTLET PIPE.



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8
SAND EQUIVALENT = MINIMUM OF 50	

**RETAINING WALL BACKDRAINS  
GRADING GUIDE SPECIFICATIONS**

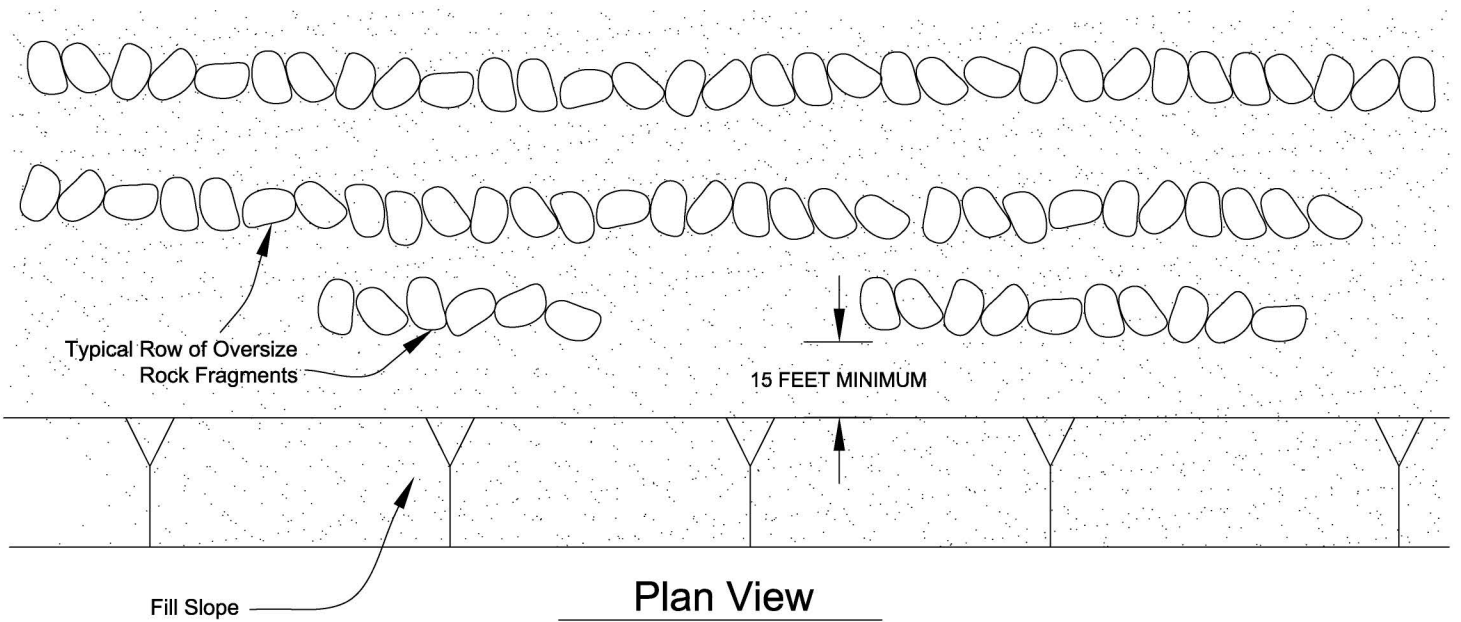
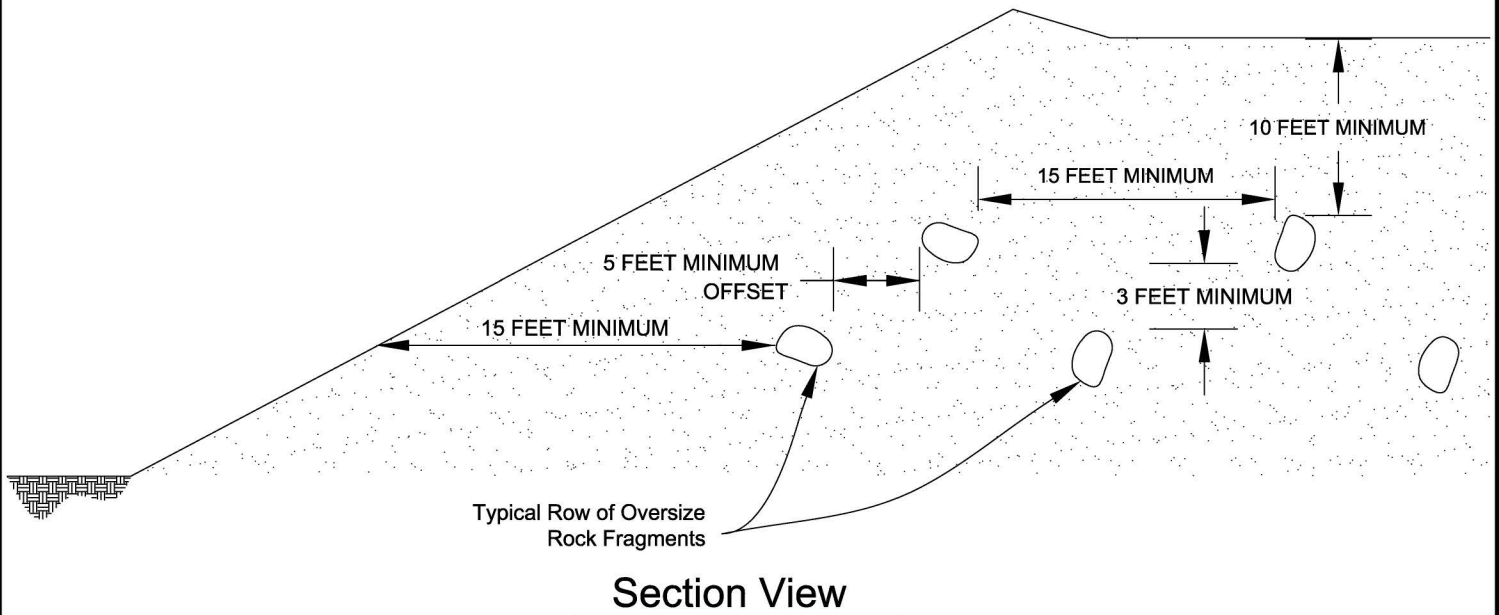
NOT TO SCALE

DRAWN: JAS  
CHKD: GKM

PLATE D-7



**SOUTHERN  
CALIFORNIA  
GEOTECHNICAL**



**PLACEMENT OF OVERSIZED MATERIAL  
GRADING GUIDE SPECIFICATIONS**

NOT TO SCALE

DRAWN: PM  
CHKD: GKM

PLATE D-8

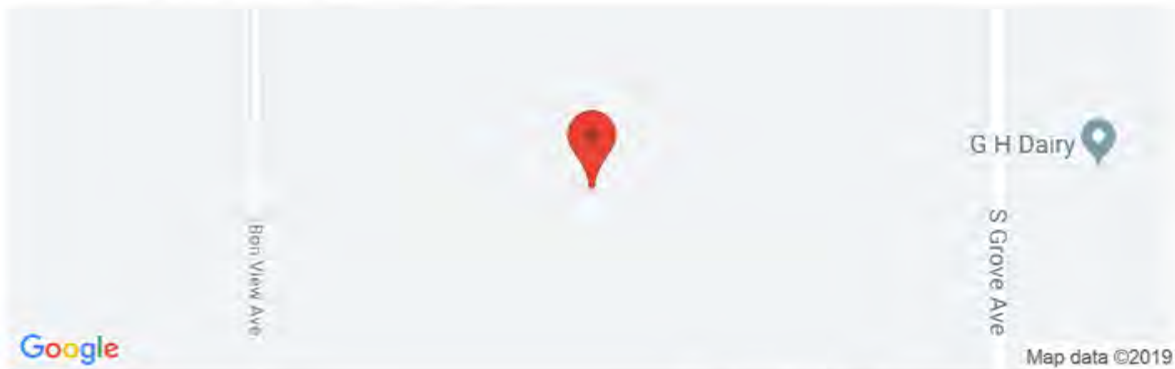


**SOUTHERN  
CALIFORNIA  
GEOTECHNICAL**

# APPENDIX E



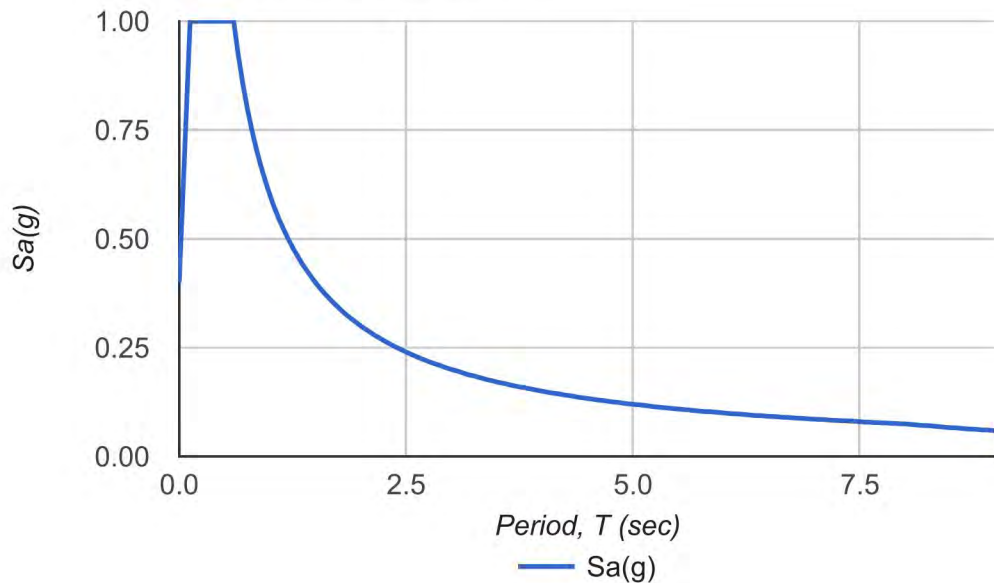
Latitude, Longitude: 33.987615, -117.632781



Date	8/31/2019, 11:47:44 AM
Design Code Reference Document	ASCE7-10
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description	Type	Value	Description
$S_S$	1.5	$MCE_R$ ground motion. (for 0.2 second period)	SDC	D	Seismic design category
$S_1$	0.6	$MCE_R$ ground motion. (for 1.0s period)	$F_a$	1	Site amplification factor at 0.2 second
$S_{MS}$	1.5	Site-modified spectral acceleration value	$F_v$	1.5	Site amplification factor at 1.0 second
$S_{M1}$	0.9	Site-modified spectral acceleration value	PGA	0.521	$MCE_G$ peak ground acceleration
$S_{DS}$	1	Numeric seismic design value at 0.2 second SA	$F_{PGA}$	1	Site amplification factor at PGA
$S_{D1}$	0.6	Numeric seismic design value at 1.0 second SA	$PGA_M$	0.521	Site modified peak ground acceleration

### Design Response Spectrum



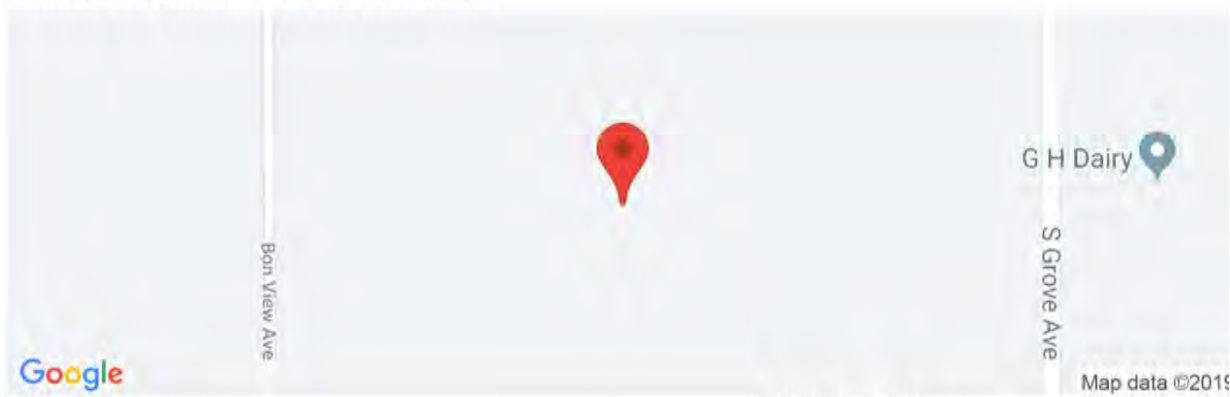
SOURCE: SEAOC/OSHPD Seismic Design Maps Tool  
<<https://seismicmaps.org/>>



<b>SEISMIC DESIGN PARAMETERS - 2016 CBC</b>	
PROPOSED SOUTH ONTARIO LOGISTICS CENTER	
ONTARIO, CALIFORNIA	
DRAWN: JLL CHKD: RGT SCG PROJECT 19G134-2	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
<b>PLATE E-1A</b>	



Latitude, Longitude: 33.987615, -117.632781



Date	9/17/2019, 2:23:17 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
$S_S$	1.661	$MCE_R$ ground motion. (for 0.2 second period)
$S_1$	0.595	$MCE_R$ ground motion. (for 1.0s period)
$S_{MS}$	1.661	Site-modified spectral acceleration value
$S_{M1}$	null -See Section 11.4.8	Site-modified spectral acceleration value
$S_{DS}$	1.107	Numeric seismic design value at 0.2 second SA
$S_{D1}$	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
$F_a$	1	Site amplification factor at 0.2 second
$F_v$	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.691	$MCE_G$ peak ground acceleration
$F_{PGA}$	1.1	Site amplification factor at PGA
$PGA_M$	0.76	Site modified peak ground acceleration
$T_L$	8	Long-period transition period in seconds
$S_{sRT}$	1.661	Probabilistic risk-targeted ground motion. (0.2 second)
$S_{sUH}$	1.78	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
$S_{sD}$	1.858	Factored deterministic acceleration value. (0.2 second)
$S_{1RT}$	0.595	Probabilistic risk-targeted ground motion. (1.0 second)
$S_{1UH}$	0.649	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
$S_{1D}$	0.605	Factored deterministic acceleration value. (1.0 second)
$PGA_d$	0.756	Factored deterministic acceleration value. (Peak Ground Acceleration)
$C_{RS}$	0.933	Mapped value of the risk coefficient at short periods
$C_{R1}$	0.915	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool  
<https://seismicmaps.org/>



<b>SEISMIC DESIGN PARAMETERS - 2019 CBC</b>	
PROPOSED SOUTH ONTARIO LOGISTICS CENTER	
ONTARIO, CALIFORNIA	
DRAWN: JLL CHKD: RGT SCG PROJECT 19G134-2 <b>PLATE E-1B</b>	 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>

**APPENDIX E2**

**INFILTRATION TESTING REPORT**

May 3, 2019

REDA LLC  
4100 MacArthur Boulevard, Suite 120  
Newport Beach, California 92660



Attention: Mr. Bill Goltermann

Project No.: **19G134-1**

Subject: **Results of Preliminary Infiltration Testing**  
Proposed Commercial/Industrial Development  
SWC Eucalyptus Avenue and Grove Avenue  
Ontario, California

Reference: Geotechnical Feasibility Study, Proposed Commercial/Industrial Development, SWC Eucalyptus Avenue and Grove Avenue, Ontario, California, prepared by Southern California Geotechnical, Inc. (SCG), for Hillwood, SCG Project No. 18G133-1, dated April 18, 2018.

Dear Mr. Goltermann:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations. A total of nine (9) infiltration tests were performed in order to assess the feasibility of using on-site infiltration throughout the subject site. Additional infiltration testing will be required at a later date in order to determine the infiltration rates at the other infiltration system locations.

### **Scope of Services**

The scope of services performed for this project was in general accordance with our Proposal No. 19P173R, dated March 27, 2019. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the onsite soils. The infiltration testing was performed in general accordance with the guidelines published in the Technical Guidance Document for Water Quality Management Plans (WQMP), prepared for the County of San Bernardino Areawide Stormwater Program dated June 7, 2013. The San Bernardino County standards defer to guidelines published by Riverside County Department of Environmental Health (RCDEH).

### **Site and Project Description**

The subject site is located at the southwest corner of Eucalyptus Avenue and Grove Avenue in Ontario, California. The site is bounded to the north by Eucalyptus Avenue, to the west by Bon View Avenue, to the south by Merrill Avenue and an existing dairy farm, and to the east by Grove Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 of this report.



The site is currently developed as a dairy farm. The eastern half of the subject site is presently developed with several cattle pens, steel canopies, and a large steel barn structure in the north-central region. The northeastern portion of the site is developed with two (2) single-family residences, a milking parlor, and other structures associated with milking activities. The single-family residences appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The southeastern portion of the site is developed with multiple cattle pens, a large 106,500± ft<sup>2</sup> wastewater pond, and a single-family residence in the southeastern corner. The ground surface cover surrounding the residences and the other structures generally consists of turf grass, aggregate base (AB), asphaltic concrete (AC), and concrete pavements, as well as manure in the cattle pen areas and exposed soils with sparse native grass and weed growth in the remaining areas.

The western half of the site appears to be primarily utilized for agricultural purposes and wastewater storage. The ground surface cover generally consists of exposed soils with moderate to very dense native grass and weed growth. The northwestern corner of the site is developed with four (4) small farmhouses and a steel barn structure. The farmhouses appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding these structures consists of turf grass, concrete pavements, and exposed soil. The southern portion of the western half of the site contains ten (10) wastewater holding ponds ranging in size from 28,500± ft<sup>2</sup> to 90,000± ft<sup>2</sup> and depths ranging from 3 to 5± feet.

Topographic information for the subject site was obtained from a grading plan prepared by Thienes Engineering, Inc. The plan indicates that the site topography generally slopes downward to the south-southwest at a gradient of less than 1± percent. With the exception of the aforementioned wastewater holding ponds, the existing site grades range from an elevation of 675± feet mean sea level (msl) in the northeastern area of the site to 652± feet msl in the southwestern area.

### **Proposed Development**

Based on the site plan provided to our office, the subject site will be developed with a total of eight (8) new commercial/industrial buildings. The buildings will be identified as Building 1 through Building 8. Buildings 1 through 3 will occupy the majority of the subject site and will range from 507,620± ft<sup>2</sup> to 1,294,400± ft<sup>2</sup> in size. Buildings 1 and 2 will be constructed in cross-dock configurations and Building 3 will be constructed with dock-high doors along the southern building wall. Buildings 4 through 8 will be located in the northern area of the site along Eucalyptus Avenue, and will range from 67,490± ft<sup>2</sup> to 118,550± ft<sup>2</sup> in size. These buildings will be constructed with dock-high doors along the southern wall of each building. It is expected that the buildings will be surrounded by asphaltic concrete pavements for the parking and drive lanes, and Portland cement concrete pavements in the loading dock areas. Several landscape planters and areas of concrete flatwork will also be included throughout the site.

We understand that the proposed development will include on-site infiltration to dispose of storm water. Based on an infiltration test exhibit, prepared by Thienes Engineering, Inc., the project civil engineer, the proposed infiltration system will consist of a total of twelve (12) below-grade chamber systems for the proposed development. The below-grade chambers are identified as

(Infiltration Chamber "A" through Infiltration Chamber "L". The bottoms of the below-grade chambers will range from 11 to 21½± feet below the existing site grades. In addition, several dry well systems may also be included as part of the infiltration system. The dry wells are expected to extend to depths of 50± feet. It should be noted that the infiltration testing was only completed for nine (9) of the below-grade chamber systems. The remaining infiltration systems are expected to be tested at a later time.

## **Previous Study**

Southern California Geotechnical, Inc. (SCG) previously conducted a geotechnical feasibility study at the subject site, referenced above. As a part of this study, six (6) borings were advanced to depths of 20 to 30± feet below currently existing site grades. In addition to the six borings, five (5) trenches were excavated at the site to depths of 5 to 10± feet below existing site grades. Manure was present at the ground surface at two of the trenches with thicknesses of 4½ to 5± inches. Highly organic topsoil materials were encountered at some of the boring and trench locations, which consisted of silty fine sands and contained manure and/or other fibrous organic material. A 6±-inch-thick surficial layer of aggregate base was observed at the ground surface at one of the borings. Artificial fill soils were encountered beneath the AB layer and at the ground surface at one of the boring locations, extending to depths of 2½ to 3± feet. The fill soils consisted of medium dense fine sand with trace silt, fine gravel, and AC fragments. Native alluvial soils were encountered at the ground surface or beneath the fill, topsoil, and manure at all of the boring and trench locations. The near-surface alluvium generally consisted of loose to medium dense fine sands and silty fine sands to fine sandy silts, extending to depths of 4½ to 8½± feet below ground surface. Beneath these soils, the borings encountered stiff to very stiff clayey silts, silty clays, and sandy clays with occasional layers of medium dense silty sands, sandy silts, and clayey sands, extending to at least the maximum depth explored of 30± feet below existing site grades. Free water was not encountered during the drilling of any of the borings.

## **Subsurface Exploration**

### **Scope of Exploration**

The subsurface exploration conducted for the infiltration testing consisted of nine (9) infiltration test borings advanced to depths of 12 to 20± feet below the existing site grades. In addition to the nine (9) infiltration borings, one (1) exploratory boring was drilled to a depth of 60± feet to verify that the depth to groundwater is at least 10± feet below the bottom of the proposed dry well systems. All of the borings were advanced using a truck-mounted drilling rig, equipped with 8-inch-diameter hollow stem augers and were logged during drilling by a member of our staff. The approximate locations of the infiltration test borings (identified as I-1 through I-9) and the exploratory boring (Boring No. B-7) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Upon the completion of the infiltration borings, the bottom of each test boring was covered with 2± inches of clean ¾-inch gravel. A sufficient length of 3-inch-diameter perforated PVC casing was then placed into each test hole so that the PVC casing extended from the bottom of the test hole to the ground surface. Clean ¾-inch gravel was then installed in the annulus surrounding the PVC casing.

## Geotechnical Conditions

Disturbed alluvial soils were encountered at the ground surface at Infiltration Boring Nos. I-1, I-2, and I-6 through I-8, extending to a depth of 3± foot below existing site grades. The disturbed alluvial soils consist of very loose to medium dense silty fine sands with varying amounts of medium sand. The soils classified as disturbed alluvium generally resemble the underlying native alluvium but have a disturbed, loose appearance from the possible tillage of the surficial soils resulting in their classification as disturbed alluvium.

Native alluvial soils were encountered beneath the disturbed alluvium and at the ground surface at the exploratory boring and the remaining infiltration boring locations, extending to at least 60± feet below the existing site grades. The alluvium generally consists of soft to very stiff silty clays and fine sandy clays, and loose to dense fine sandy silts, silty fine sands, clayey fine sands, and fine sands with varying medium sand, silt, and clay content. The Boring Logs, which illustrate the conditions encountered at the boring locations, are included with this report.

## Groundwater

Free water was not encountered during the drilling of any of the borings. Based on the lack of any water within the borings and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 60± feet at the time of the subsurface exploration. As part of our research, we reviewed readily available groundwater data in order to determine regional groundwater depths. Recent water level data was obtained from the California State Water Resources Control Board GeoTracker website, <http://geotracker.waterboards.ca.gov/>. Available data for one of the monitoring wells, located approximately 3,090± feet southwest from the site, indicates a high groundwater level of 71± feet below ground surface.

## **Infiltration Testing**

As previously mentioned, the infiltration testing was performed in general accordance with the guidelines published in the Technical Guidance Document for Water Quality Management Plans (WQMP), prepared for the County of San Bernardino Areawide Stormwater Program.

## Pre-soaking

In accordance with the county infiltration standards, all nine (9) of the infiltration test borings were pre-soaked prior to the infiltration testing. The pre-soaking process consisted of filling the test borings by inverting a full 5-gallon bottle of clear water supported over each hole so that the water level reaches a level of at least 5 times the hole's radius above the gravel at the bottom of each hole. The pre-soaking was completed after all of the water had percolated through each test hole or after 15 hours since initiating the pre-soak. Based on the results of the pre-soaking process, different infiltration procedures were used during the infiltration testing at the infiltration boring locations.

## Infiltration Testing

Following the pre-soaking process of the infiltration test borings, SCG performed the infiltration testing. Each test hole was filled with water to a depth of at least 5 times the hole's radius above the gravel at the bottom of each test hole, and less than or equal to the water level used during the pre-soaking process. In accordance with the San Bernardino County guidelines, since "sandy soils" were encountered at the bottom of Infiltration Boring Nos. I-3 through I-5 (where 6 inches of water infiltrated into the surrounding soils for two-consecutive 25-minute readings), readings were taken at 10-minute intervals for a total of 1 hour at Infiltration Test Nos. I-3, I-4, and I-5. Since "non-sandy soils" were encountered at the bottom of Infiltration Boring Nos. I-1, I-2, and I-6 through I-9, readings were taken at 30-minute intervals for a total of 6 hours for these six (6) infiltration tests. After each reading, the borings were refilled to the correct water level above the gravel at the bottom of each test hole. The water level readings are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on the spreadsheets.

The infiltration rates from the test are tabulated in inches per hour. In accordance with the typically accepted practice, it is recommended that the most conservative reading from the latter part of the infiltration tests be used as the design infiltration rate. The rates are summarized below:

<u>Infiltration Test No.</u>	<u>Depth (feet)</u>	<u>Test Elevation (msl)</u>	<u>Soil Description</u>	<u>Infiltration Rate (inches/hour)</u>
I-1	15	653	Fine Sandy Clay, trace Silt	0.1
I-2	15½	652.5	Fine Sandy Clay	0.1
I-3	14	655	Silty fine to medium Sand, trace coarse Sand, trace Clay	4.0
I-4	16½	649	Silty fine to medium Sand	4.2
I-5	18½	645.5	Silty fine Sand	3.8
I-6	15½	645	Fine Sandy Clay, trace medium Sand, trace Silt	0.2
I-7	20	645	Clayey fine Sand, trace medium Sand	0.2
I-8	12	645	Fine Sandy Clay, little Silt	0.3
I-9	12	663.5	Fine Sandy Clay, trace Silt	0.2

## **Laboratory Testing**

### **Moisture Content**

The moisture contents for the recovered soil samples within the borings were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

### **Grain Size Analysis**

The grain size distribution of selected soils collected from the bottom of each infiltration test boring have been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these tests are presented on Plates C-1 through C-9 of this report.

## **Design Recommendations**

Nine (9) infiltration tests were performed at the subject site. As noted above, the infiltration rates at these locations range from 0.1 to 4.2 inches per hour. The primary factors affecting the infiltration rates are the silt and clay content of the soils encountered at the bottom of each infiltration test boring, which vary at different depths and locations at the subject site. As previously mentioned, a total of nine (9) infiltration tests were performed as part of the initial infiltration testing in order to assess the feasibility of using on-site infiltration throughout the subject site.

**Based on the initial infiltration test results, the following preliminary infiltration rates are recommended:**

<b>Infiltration Chamber</b>	<b>Infiltration Rate (in/hr)</b>
A	No Significant Infiltration
B	No Significant Infiltration
C	Additional Testing Required
D	Additional Testing Required
E	4.0
F	4.2
G	3.8
H	No Significant Infiltration
I	0.3
J	No Significant Infiltration
K	Additional Testing Required
L	No Significant Infiltration

Additional infiltration testing will be required within the proposed infiltration chambers that have not been tested and within Infiltration Chambers "E", "F", and "G" to confirm the infiltration rates at other locations within the chambers.

The design of the proposed storm water infiltration systems should be performed by the project civil engineer, in accordance with the City of Ontario and/or County of San Bernardino guidelines. However, it is recommended that the systems be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the systems. The presence of such materials would decrease the effective infiltration rate. **It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rates are based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rates.** It should be noted that the infiltration rates are based on infiltration testing at nine (9) discrete locations and the overall infiltration rates of the storm water infiltration systems could vary considerably.

### **Construction Considerations**

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Therefore, the subgrade soils within proposed infiltration system areas should not be overexcavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

### **Infiltration versus Permeability**

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. The infiltration rates presented herein were determined in accordance with the ASTM Test Method D-3385-03 standard and are considered valid for the time and place of the actual test. Changes in soil moisture content will affect these infiltration rates. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

### **Location of Infiltration Systems**

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration areas could potentially be damaged due to saturation of subgrade soils. **The proposed infiltration systems for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building, it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which

happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration systems.

### **General Comments**

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rates contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

**Closure**

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

**SOUTHERN CALIFORNIA GEOTECHNICAL, INC.**



Scott McCann  
Staff Scientist



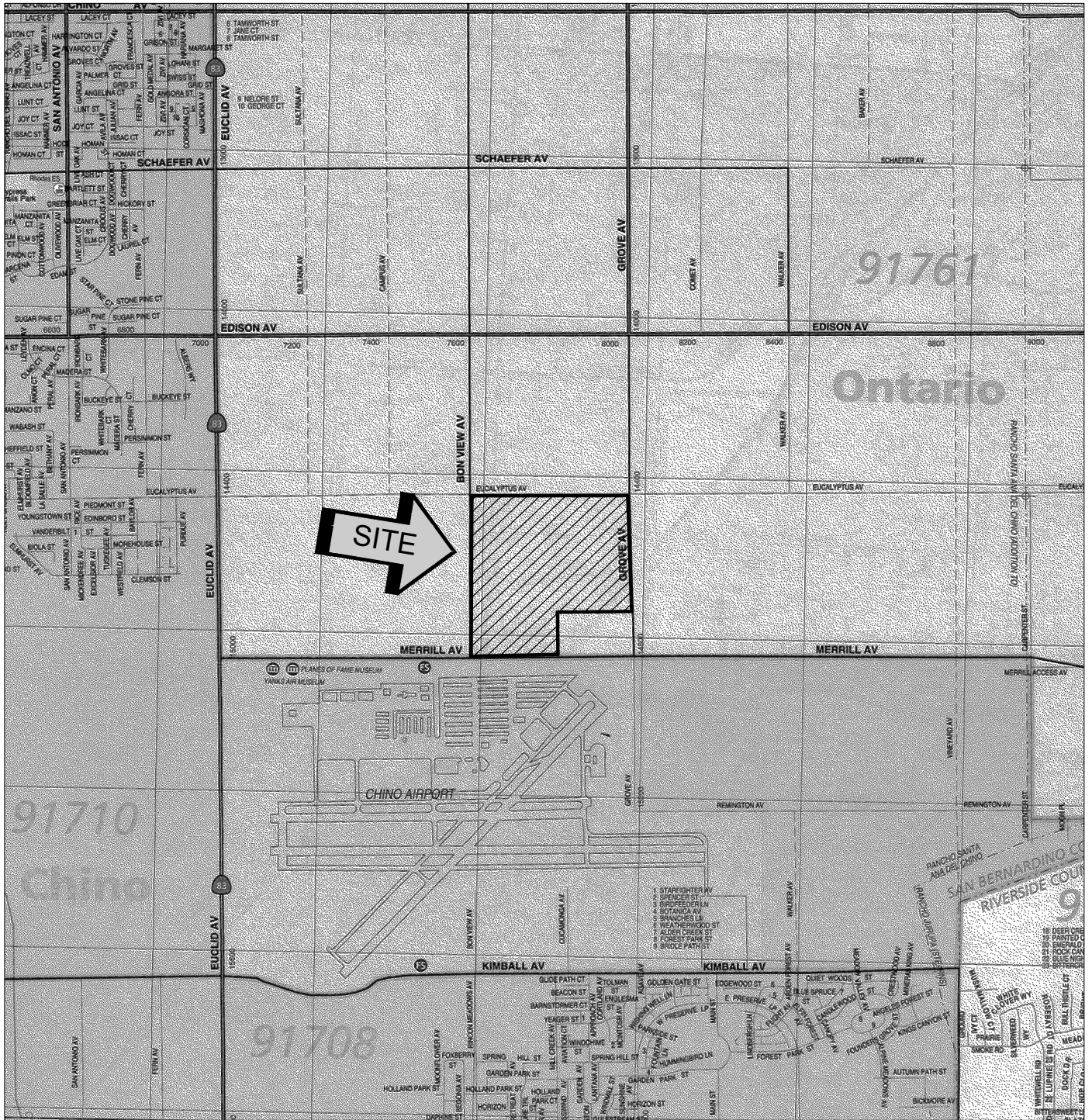
Robert G. Trazo, GE 2655  
Principal Engineer



Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map  
Plate 2 - Infiltration Test Location Plan  
Boring Log Legend and Logs (13 pages)  
Infiltration Test Results Spreadsheets (9 pages)  
Grain Size Distribution Graphs (9 pages)





SOURCE: SAN BERNARDINO COUNTY  
THOMAS GUIDE, 2013



**SITE LOCATION MAP**  
**PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT**  
**ONTARIO, CALIFORNIA**

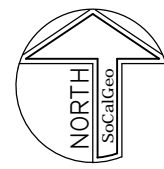
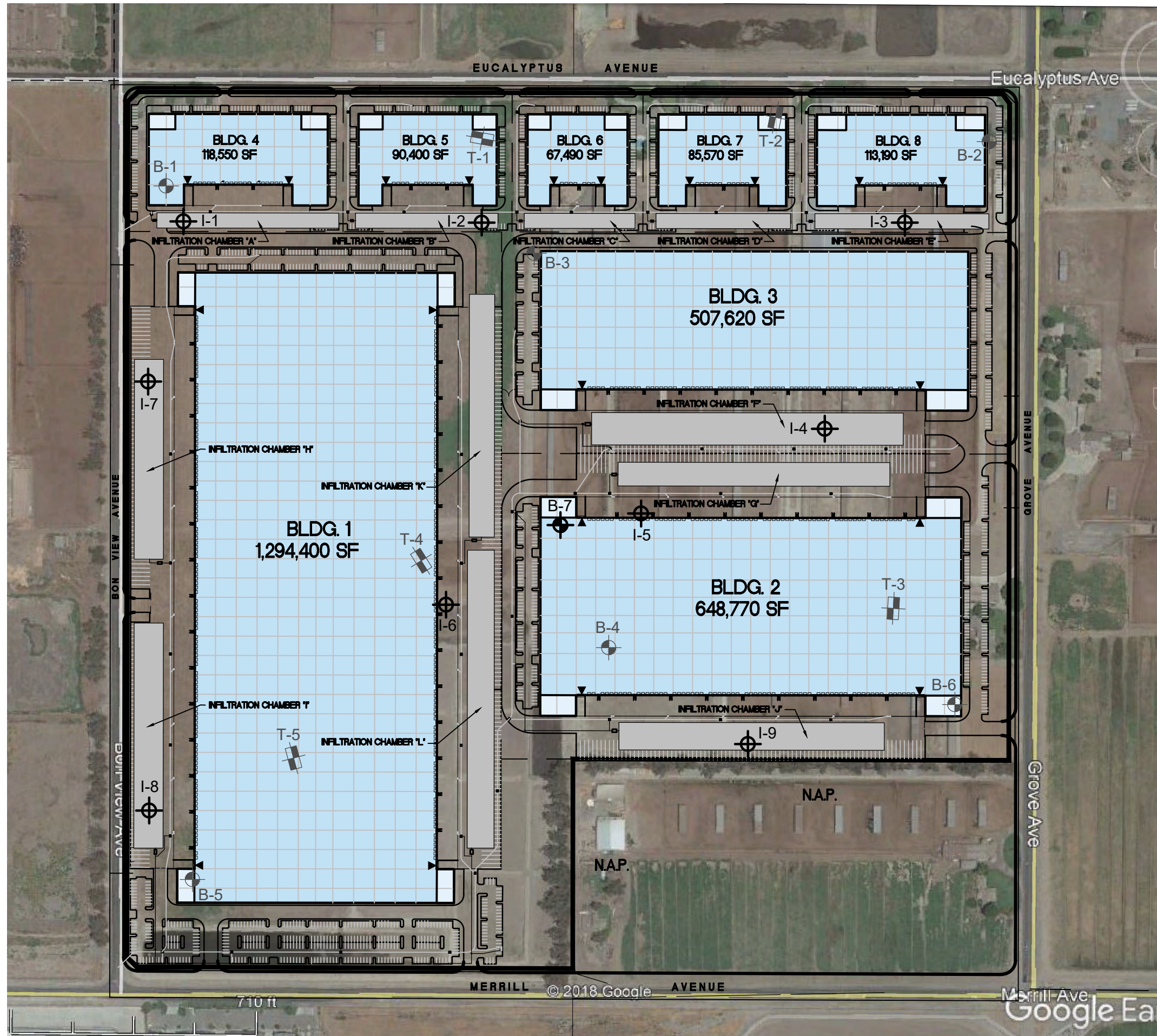
SCALE: 1" = 2400'

DRAWN: SAM  
 CHKD: RGT  
 SCG PROJECT  
 19G134-1

PLATE 1



**SOUTHERN  
 CALIFORNIA  
 GEOTECHNICAL**








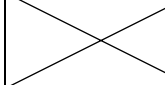


**GEOTECHNICAL LEGEND**

- APPROXIMATE INFILTRATION TEST LOCATION
- APPROXIMATE EXPLORATORY BORING LOCATION
- PROPOSED BELOW-GRADE CHAMBER SYSTEM
- APPROXIMATE BORING LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 18G133-1)
- APPROXIMATE TRENCH LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 18G133-1)

NOTE: SITE PLAN PREPARED BY THIENES ENGINEERING, INC.  
AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH.

<b>INFILTRATION TEST LOCATION PLAN</b>	
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT	
ONTARIO, CALIFORNIA	
SCALE: 1" = 300'	<b>SOUTHERN CALIFORNIA GEOTECHNICAL</b>
DRAWN: SAM	
CHKD: RGT	
SCG PROJECT 19G134-1	
PLATE 2	

# BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

## COLUMN DESCRIPTIONS

<u>DEPTH:</u>	Distance in feet below the ground surface.
<u>SAMPLE:</u>	Sample Type as depicted above.
<u>BLOW COUNT:</u>	Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.
<u>POCKET PEN.:</u>	Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.
<u>GRAPHIC LOG:</u>	Graphic Soil Symbol as depicted on the following page.
<u>DRY DENSITY:</u>	Dry density of an undisturbed or relatively undisturbed sample in lbs/ft <sup>3</sup> .
<u>MOISTURE CONTENT:</u>	Moisture content of a soil sample, expressed as a percentage of the dry weight.
<u>LIQUID LIMIT:</u>	The moisture content above which a soil behaves as a liquid.
<u>PLASTIC LIMIT:</u>	The moisture content above which a soil behaves as a plastic.
<u>PASSING #200 SIEVE:</u>	The percentage of the sample finer than the #200 standard sieve.
<u>UNCONFINED SHEAR:</u>	The shear strength of a cohesive soil sample, as measured in the unconfined state.

# SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
<p><b>COARSE GRAINED SOILS</b></p> <p>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE</p>	<p><b>GRAVEL AND GRAVELLY SOILS</b></p>	<p>CLEAN GRAVELS</p> <p>(LITTLE OR NO FINES)</p>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE</p>	<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
			<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		<p>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE</p>	<p><b>SAND AND SANDY SOILS</b></p>	<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		<b>SW</b>
	<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>				<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	<p><b>FINE GRAINED SOILS</b></p> <p>MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE</p>	<p><b>SILTS AND CLAYS</b></p> <p>LIQUID LIMIT LESS THAN 50</p>	<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>ML</b>	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		<p><b>SILTS AND CLAYS</b></p> <p>LIQUID LIMIT GREATER THAN 50</p>	<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>				<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
<p><b>HIGHLY ORGANIC SOILS</b></p>	<p><b>SILTS AND CLAYS</b></p> <p>LIQUID LIMIT GREATER THAN 50</p>	<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY	
		<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		<b>OH</b>	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
<p><b>HIGHLY ORGANIC SOILS</b></p>				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 668 feet MSL											
		5			<u>DISTURBED ALLUVIUM:</u> Dark Gray Brown Silty fine Sand, trace fine root fibers, loose-moist		14				
		10			<u>ALLUVIUM:</u> Gray Brown fine Sand, little Silt, trace medium Sand, loose to medium dense-moist		14				
5		8			Light Gray Brown Silty fine Sand to fine Sandy Silt, trace to little Clay, trace to little Calcareous veining, trace Iron oxide staining, loose-very moist		23				
		7					28				
10											
		8	4.0		Gray Brown fine Sandy Clay, trace Silt, trace Calcareous veining, medium stiff to stiff-moist to very moist		21		78		
15					Boring Terminated at 15'						

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/4/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 668 feet MSL											
					<u>DISTURBED ALLUVIUM:</u> Gray Brown Silty fine Sand, trace fine root fibers, medium dense-moist		14				
					<u>ALLUVIUM:</u> Gray Brown Silty fine Sand, trace medium Sand, medium dense-moist		14				
5					Gray Silty Clay, trace to little fine Sand, trace Calcareous veining, trace Iron oxide staining, soft to stiff-very moist						
			3.0				23				
					Gray Silty Clay, trace to little fine Sand, trace Calcareous veining, trace Iron oxide staining, soft to stiff-very moist						
			1.0				28				
10					Gray Silty Clay, trace to little fine Sand, trace Calcareous veining, trace Iron oxide staining, soft to stiff-very moist						
					Gray Silty Clay, trace to little fine Sand, trace Calcareous veining, trace Iron oxide staining, soft to stiff-very moist						
			1.5				21		62		
15					Gray Brown fine Sandy Clay, trace Calcareous nodules, stiff-moist to very moist						
Boring Terminated at 15.5'											

TBL\_19G134.GPJ\_SOCALGEO.GDT 5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/4/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 669 feet MSL											
					ALLUVIUM: Light Brown Silty fine Sand, little medium Sand, medium dense-damp		8				
5		12	2.0		Brown fine Sandy Clay, trace to little Silt, trace Calcareous nodules, trace Iron oxide staining, stiff-moist		14				
		10	2.5		Light Gray Clayey fine Sand, trace Silt, little Calcareous veining and nodules, medium dense-moist		16				
10		16			Light Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Clay, medium dense-moist		16				
		15			Light Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Clay, medium dense-moist		10		26		
Boring Terminated at 14'											

TBL\_19G134.GPJ\_SOCALGEO.GDT 5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/4/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 665.5 feet MSL											
				<u>ALLUVIUM:</u> Dark Gray Brown Silty fine Sand, trace medium Sand, medium dense-moist to very moist		13					
5		22				13					
		12	1.5	Gray fine Sandy Clay, little Calcareous veining, stiff-very moist		18					
		9		Gray Brown Clayey fine Sand, trace Calcareous veining and nodules, loose-very moist		16					
10											
		15	22	Light Brown Silty fine to medium Sand, medium dense-damp		9			25		
				Boring Terminated at 16.5'							

TBL\_19G134.GPJ\_SOCALGEO.GDT 5/3/19





JOB NO.: 19G134	DRILLING DATE: 4/4/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS					COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	
SURFACE ELEVATION: 664 feet MSL										
				<u>ALLUVIUM:</u> Dark Gray Brown Silty fine Sand, loose to medium dense-very moist		16				
				Gray Brown fine Sand, little Silt, medium dense-moist		11				
5				Gray Brown fine Sandy Clay, trace Calcareous veining and nodules, medium stiff to stiff-very moist		18				
10			3.0	2.5		19				
15				Light Gray Brown Silty fine Sand to fine Sandy Silt, trace Clay, medium dense-very moist		21				
25				Light Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-moist		12			37	
Boring Terminated at 18.5'										

TBL\_19G134.GPJ\_SOCALGEO.GDT 5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 660.5 feet MSL											
4					<u>DISTURBED ALLUVIUM:</u> Dark Gray Brown Silty fine Sand, very loose to loose-moist to very moist		14				
5					<u>ALLUVIUM:</u> Gray Brown fine Sand, little medium Sand, little Silt, trace coarse Sand, loose-moist		12				
6					Gray Brown Clayey fine Sand, trace Calcareous nodules, loose-very moist		20				
10					Gray Brown fine Sandy Clay, trace medium Sand, trace Silt, medium stiff-very moist		23				
15		7	2.0				20		60		
Boring Terminated at 15.5'											

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 665 feet MSL											
5		5		DISTURBED ALLUVIUM: Dark Gray Brown Silty fine Sand, trace fine root fibers, loose-very moist		15					
7		7		ALLUVIUM: Gray Brown fine Sand, little Silt, trace medium Sand, trace Clay, loose-moist to very moist		13					
9		9				10					
10		6				15					
15		10	3.5	Gray fine Sandy Clay, trace Calcareous nodules, trace Iron oxide staining, stiff-very moist		23					
20		12		Light Gray Brown Clayey fine Sand, trace medium Sand, trace Calcareous nodules, medium dense-moist to very moist		14			35		
Boring Terminated at 20'											

TBL\_19G134.GPJ\_SOCALGEO.GDT 5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS					COMMENTS	
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT		PASSING #200 SIEVE (%)
SURFACE ELEVATION: 657 feet MSL											
	X	6			<u>DISTURBED ALLUVIUM:</u> Dark Gray Brown Silty fine Sand, trace medium Sand, trace fine root fibers, loose-very moist		16				
5	X	10			<u>ALLUVIUM:</u> Gray Brown fine Sand, little Silt, trace to little medium Sand, loose to medium dense-moist		12				
	X	11					11				
10	X	9	2.0		Gray Brown fine Sandy Clay, little Silt, trace Calcareous veining, stiff-very moist		26		77		
Boring Terminated at 12'											

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/4/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: ---
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: 675.5 feet MSL											
				<u>ALLUVIUM:</u> Brown Silty fine Sand, loose-moist		10					
5	X	7		Gray Brown Silty fine Sand, trace medium Sand, loose-damp		7					
10	X	36		Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, trace Calcareous nodules, dense-damp		9					
15	X	15	1.5	Light Gray Brown fine Sandy Clay, trace Silt, little Calcareous veining, stiff to very stiff-moist		12			73		
Boring Terminated at 12'											

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 55 feet
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
SURFACE ELEVATION: 662 feet MSL												
5		9		ALLUVIUM: Gray Brown fine Sand, little Silt, trace medium Sand, loose-damp		7						
10		6	2.0	Gray fine Sandy Clay, trace Calcareous veining, medium stiff-very moist		18						
15		9		Gray Brown Clayey fine Sand, little medium Sand, loose-moist to very moist		14						
20		10	4.0	Brown fine Sandy Clay, trace medium Sand, trace Iron oxide staining, stiff-very moist		17						
25		23		Brown Silty fine Sand, trace medium Sand, medium dense-damp		9						
30		17		Gray Brown Clayey fine Sand, medium dense-very moist		18						
35		18		Gray Brown Silty fine Sand, medium dense-moist		11						

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19



JOB NO.: 19G134	DRILLING DATE: 4/3/19	WATER DEPTH: Dry
PROJECT: Proposed C/I Development	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 55 feet
LOCATION: Ontario, California	LOGGED BY: Anthony Luna	READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION  (Continued)	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	
40		28		Light Gray Brown fine to medium Sand, medium dense-damp		4						
45		47		Brown Silty fine Sand, trace to little medium Sand, trace Clay, medium dense to dense-moist to very moist		9						
50		20				15						
55		29		Gray Brown Clayey fine Sand, trace Silt, medium dense-moist to very moist		14						
60		21		Gray Brown fine Sandy Silt, little Clay, trace Iron oxide staining, medium dense-very moist		24						
Boring Terminated at 60'												

TBL\_19G134.GPJ\_SOCALGEO.GDT\_5/3/19

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	14.9 (ft)

Infiltration Test Hole	I-1
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:00 AM	30.0	13.04	0.07	1.83	0.14
	Final	8:30 AM		13.11			
2	Initial	8:30 AM	30.0	13.11	0.05	1.77	0.10
	Final	9:00 AM		13.16			
3	Initial	9:00 AM	30.0	13.16	0.04	1.72	0.08
	Final	9:30 AM		13.20			
4	Initial	9:30 AM	30.0	13.20	0.05	1.68	0.11
	Final	10:00 AM		13.25			
5	Initial	10:00 AM	30.0	13.19	0.05	1.69	0.11
	Final	10:30 AM		13.24			
6	Initial	10:30 AM	30.0	13.18	0.04	1.70	0.09
	Final	11:00 AM		13.22			
7	Initial	11:00 AM	30.0	13.20	0.04	1.68	0.09
	Final	11:30 AM		13.24			
8	Initial	11:30 AM	30.0	13.19	0.04	1.69	0.09
	Final	12:00 PM		13.23			
9	Initial	12:00 PM	30.0	13.17	0.03	1.72	0.06
	Final	12:30 PM		13.20			
10	Initial	12:30 PM	30.0	13.20	0.04	1.68	0.09
	Final	1:00 PM		13.24			
11	Initial	1:00 PM	30.0	13.19	0.04	1.69	0.09
	Final	1:30 PM		13.23			
12	Initial	1:30 PM	30.0	13.20	0.04	1.68	0.09
	Final	2:00 PM		13.24			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval



## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	15.3 (ft)

Infiltration Test Hole	I-2
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	10:00 AM	30.0	13.13	0.05	2.15	0.09
	Final	10:30 AM		13.18			
2	Initial	10:30 AM	30.0	13.18	0.03	2.11	0.05
	Final	11:00 AM		13.21			
3	Initial	11:00 AM	30.0	13.21	0.03	2.08	0.05
	Final	11:30 AM		13.24			
4	Initial	11:30 AM	30.0	13.24	0.04	2.04	0.07
	Final	12:00 PM		13.28			
5	Initial	12:00 PM	30.0	13.28	0.03	2.01	0.06
	Final	12:30 PM		13.31			
6	Initial	12:30 PM	30.0	13.31	0.03	1.98	0.06
	Final	1:00 PM		13.34			
7	Initial	1:00 PM	30.0	13.34	0.03	1.95	0.06
	Final	1:30 PM		13.37			
8	Initial	1:30 PM	30.0	13.37	0.03	1.92	0.06
	Final	2:00 PM		13.40			
9	Initial	2:00 PM	30.0	13.40	0.03	1.89	0.06
	Final	2:30 PM		13.43			
10	Initial	2:30 PM	30.0	13.43	0.03	1.86	0.06
	Final	3:00 PM		13.46			
11	Initial	3:00 PM	30.0	13.46	0.03	1.83	0.06
	Final	3:30 PM		13.49			
12	Initial	3:30 PM	30.0	13.49	0.03	1.80	0.06
	Final	4:00 PM		13.52			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval

**INFILTRATION CALCULATIONS**

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	13.9 (ft)

Infiltration Test Hole	I-3
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	8:00 AM	25.0	12.08	0.39	1.63	1.04	Pre-Sat
	Final	8:25 AM		12.47				
P2	Initial	8:26 AM	25.0	12.14	1.23	1.15	4.50	
	Final	8:51 AM		13.37				
1	Initial	8:52 AM	10.0	12.13	0.62	1.46	4.57	Infiltration Testing
	Final	9:02 AM		12.75				
2	Initial	9:03 AM	10.0	12.18	0.58	1.43	4.36	
	Final	9:13 AM		12.76				
3	Initial	9:13 AM	10.0	12.19	0.57	1.43	4.30	
	Final	9:23 AM		12.76				
4	Initial	9:23 AM	10.0	12.15	0.54	1.48	3.94	
	Final	9:33 AM		12.69				
5	Initial	9:33 AM	10.0	12.19	0.53	1.45	3.95	
	Final	9:43 AM		12.72				
6	Initial	9:44 AM	10.0	12.20	0.53	1.44	3.97	
	Final	9:54 AM		12.73				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

- Where:
- Q = Infiltration Rate (in inches per hour)
  - ΔH = Change in Height (Water Level) over the time interval
  - r = Test Hole (Borehole) Radius
  - Δt = Time Interval
  - H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	16.3 (ft)

Infiltration Test Hole	I-4
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	10:00 AM	25.0	14.52	1.27	1.15	4.65	Pre-Sat
	Final	10:25 AM		15.79				
P2	Initial	10:26 AM	25.0	14.55	1.17	1.17	4.22	
	Final	10:51 AM		15.72				
1	Initial	10:52 AM	10.0	14.53	0.65	1.45	4.84	Infiltration Testing
	Final	11:02 AM		15.18				
2	Initial	11:03 AM	10.0	14.57	0.63	1.42	4.78	
	Final	11:13 AM		15.20				
3	Initial	11:13 AM	10.0	14.60	0.60	1.40	4.60	
	Final	11:23 AM		15.20				
4	Initial	11:23 AM	10.0	14.60	0.61	1.40	4.69	
	Final	11:33 AM		15.21				
5	Initial	11:33 AM	10.0	14.55	0.58	1.46	4.28	
	Final	11:43 AM		15.13				
6	Initial	11:44 AM	10.0	14.59	0.56	1.43	4.21	
	Final	11:54 AM		15.15				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

- Where:
- Q = Infiltration Rate (in inches per hour)
  - ΔH = Change in Height (Water Level) over the time interval
  - r = Test Hole (Borehole) Radius
  - Δt = Time Interval
  - H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	17.5 (ft)

Infiltration Test Hole	I-5
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	9:00 AM	25.0	15.56	1.47	1.21	5.14	Pre-Sat
	Final	9:25 AM		17.03				
P2	Initial	9:26 AM	25.0	15.55	1.16	1.37	3.62	
	Final	9:51 AM		16.71				
1	Initial	9:52 AM	10.0	15.55	0.65	1.63	4.35	Infiltration Testing
	Final	10:02 AM		16.20				
2	Initial	10:03 AM	10.0	15.55	0.63	1.64	4.20	
	Final	10:13 AM		16.18				
3	Initial	10:13 AM	10.0	15.55	0.61	1.65	4.04	
	Final	10:23 AM		16.16				
4	Initial	10:23 AM	10.0	15.56	0.60	1.64	3.99	
	Final	10:33 AM		16.16				
5	Initial	10:33 AM	10.0	15.57	0.58	1.64	3.85	
	Final	10:43 AM		16.15				
6	Initial	10:44 AM	10.0	15.60	0.56	1.62	3.76	
	Final	10:54 AM		16.16				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

- Where:
- Q = Infiltration Rate (in inches per hour)
  - ΔH = Change in Height (Water Level) over the time interval
  - r = Test Hole (Borehole) Radius
  - Δt = Time Interval
  - H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	15.4 (ft)

Infiltration Test Hole	I-6
------------------------	-----

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	9:15 AM	30.0	13.57	0.10	1.78	0.21
	Final	9:45 AM		13.67			
2	Initial	9:45 AM	30.0	13.67	0.09	1.69	0.19
	Final	10:15 AM		13.76			
3	Initial	10:15 AM	30.0	13.69	0.09	1.67	0.20
	Final	10:45 AM		13.78			
4	Initial	10:45 AM	30.0	13.70	0.08	1.66	0.18
	Final	11:15 AM		13.78			
5	Initial	11:15 AM	30.0	13.67	0.09	1.69	0.19
	Final	11:45 AM		13.76			
6	Initial	11:45 AM	30.0	13.66	0.08	1.70	0.17
	Final	12:15 PM		13.74			
7	Initial	12:15 PM	30.0	13.65	0.08	1.71	0.17
	Final	12:45 PM		13.73			
8	Initial	12:45 PM	30.0	13.70	0.08	1.66	0.18
	Final	1:15 PM		13.78			
9	Initial	1:15 PM	30.0	13.66	0.08	1.70	0.17
	Final	1:45 PM		13.74			
10	Initial	1:45 PM	30.0	13.69	0.08	1.67	0.17
	Final	2:15 PM		13.77			
11	Initial	2:15 PM	30.0	13.69	0.08	1.67	0.17
	Final	2:45 PM		13.77			
12	Initial	2:45 PM	30.0	13.70	0.08	1.66	0.18
	Final	3:15 PM		13.78			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	19.8 (ft)

Infiltration Test Hole	I-7
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Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:10 AM	30.0	18.00	0.17	1.72	0.36
	Final	8:40 AM		18.17			
2	Initial	8:40 AM	30.0	18.05	0.15	1.68	0.33
	Final	9:10 AM		18.20			
3	Initial	9:10 AM	30.0	18.07	0.12	1.67	0.26
	Final	9:40 AM		18.19			
4	Initial	9:40 AM	30.0	18.03	0.11	1.72	0.23
	Final	10:10 AM		18.14			
5	Initial	10:10 AM	30.0	18.00	0.10	1.75	0.21
	Final	10:40 AM		18.10			
6	Initial	10:40 AM	30.0	18.01	0.10	1.74	0.21
	Final	11:10 AM		18.11			
7	Initial	11:10 AM	30.0	18.11	0.10	1.64	0.22
	Final	11:40 AM		18.21			
8	Initial	11:40 AM	30.0	18.09	0.09	1.67	0.20
	Final	12:10 PM		18.18			
9	Initial	12:10 PM	30.0	18.10	0.09	1.66	0.20
	Final	12:40 PM		18.19			
10	Initial	12:40 PM	30.0	18.07	0.10	1.68	0.22
	Final	1:10 PM		18.17			
11	Initial	1:10 PM	30.0	18.08	0.09	1.68	0.20
	Final	1:40 PM		18.17			
12	Initial	1:40 PM	30.0	18.10	0.09	1.66	0.20
	Final	2:10 PM		18.19			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	11.8 (ft)

Infiltration Test Hole	I-8
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Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:20 AM	30.0	9.96	0.17	1.76	0.35
	Final	8:50 AM		10.13			
2	Initial	8:50 AM	30.0	10.03	0.15	1.70	0.32
	Final	9:20 AM		10.18			
3	Initial	9:20 AM	30.0	10.07	0.14	1.66	0.31
	Final	9:50 AM		10.21			
4	Initial	9:50 AM	30.0	10.06	0.15	1.67	0.33
	Final	10:20 AM		10.21			
5	Initial	10:20 AM	30.0	10.09	0.14	1.64	0.31
	Final	10:50 AM		10.23			
6	Initial	10:50 AM	30.0	10.10	0.14	1.63	0.31
	Final	11:20 AM		10.24			
7	Initial	11:20 AM	30.0	10.10	0.14	1.63	0.31
	Final	11:50 AM		10.24			
8	Initial	11:50 AM	30.0	10.05	0.13	1.69	0.28
	Final	12:20 PM		10.18			
9	Initial	12:20 PM	30.0	10.06	0.13	1.68	0.28
	Final	12:50 PM		10.19			
10	Initial	12:50 PM	30.0	10.09	0.13	1.65	0.29
	Final	1:20 PM		10.22			
11	Initial	1:20 PM	30.0	10.09	0.14	1.64	0.31
	Final	1:50 PM		10.23			
12	Initial	1:50 PM	30.0	10.10	0.13	1.64	0.29
	Final	2:20 PM		10.23			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval

## INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4 (in)
Test Depth	12.4 (ft)

Infiltration Test Hole	I-9
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Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:05 AM	30.0	10.10	0.15	2.23	0.25
	Final	8:35 AM		10.25			
2	Initial	8:35 AM	30.0	10.10	0.14	2.23	0.23
	Final	9:05 AM		10.24			
3	Initial	9:05 AM	30.0	10.10	0.12	2.24	0.20
	Final	9:35 AM		10.22			
4	Initial	9:35 AM	30.0	10.08	0.13	2.26	0.21
	Final	10:05 AM		10.21			
5	Initial	10:05 AM	30.0	10.05	0.11	2.30	0.18
	Final	10:35 AM		10.16			
6	Initial	10:35 AM	30.0	10.07	0.11	2.28	0.18
	Final	11:05 AM		10.18			
7	Initial	11:05 AM	30.0	10.09	0.10	2.26	0.16
	Final	11:35 AM		10.19			
8	Initial	11:35 AM	30.0	10.10	0.10	2.25	0.17
	Final	12:05 PM		10.20			
9	Initial	12:05 PM	30.0	10.10	0.11	2.25	0.18
	Final	12:35 PM		10.21			
10	Initial	12:35 PM	30.0	10.10	0.10	2.25	0.17
	Final	1:05 PM		10.20			
11	Initial	1:05 PM	30.0	10.08	0.10	2.27	0.16
	Final	1:35 PM		10.18			
12	Initial	1:35 PM	30.0	10.09	0.10	2.26	0.16
	Final	2:05 PM		10.19			

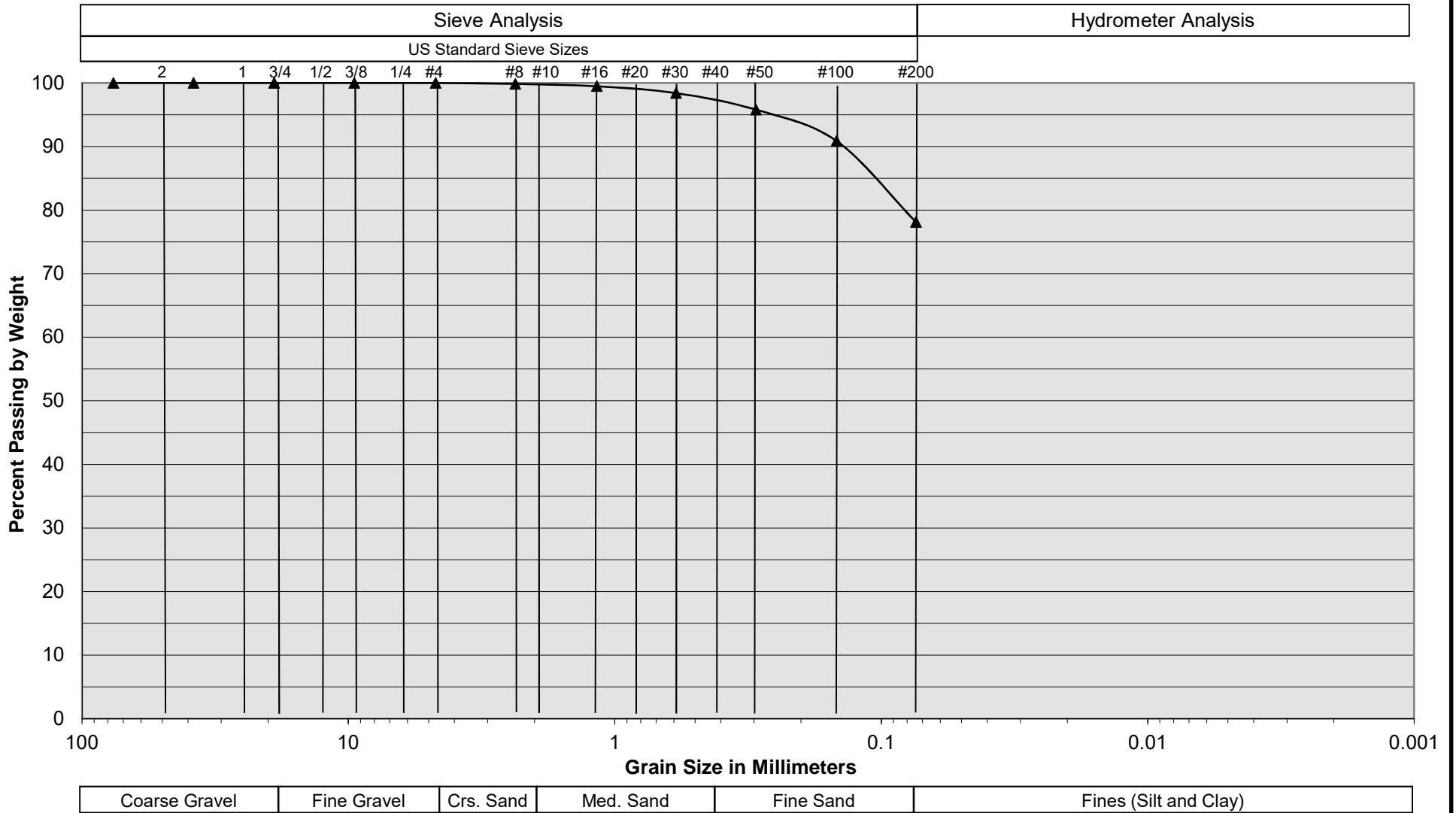
Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$


Where: Q = Infiltration Rate (in inches per hour)  
 ΔH = Change in Height (Water Level) over the time interval  
 r = Test Hole (Borehole) Radius  
 Δt = Time Interval  
 H<sub>avg</sub> = Average Head Height over the time interval



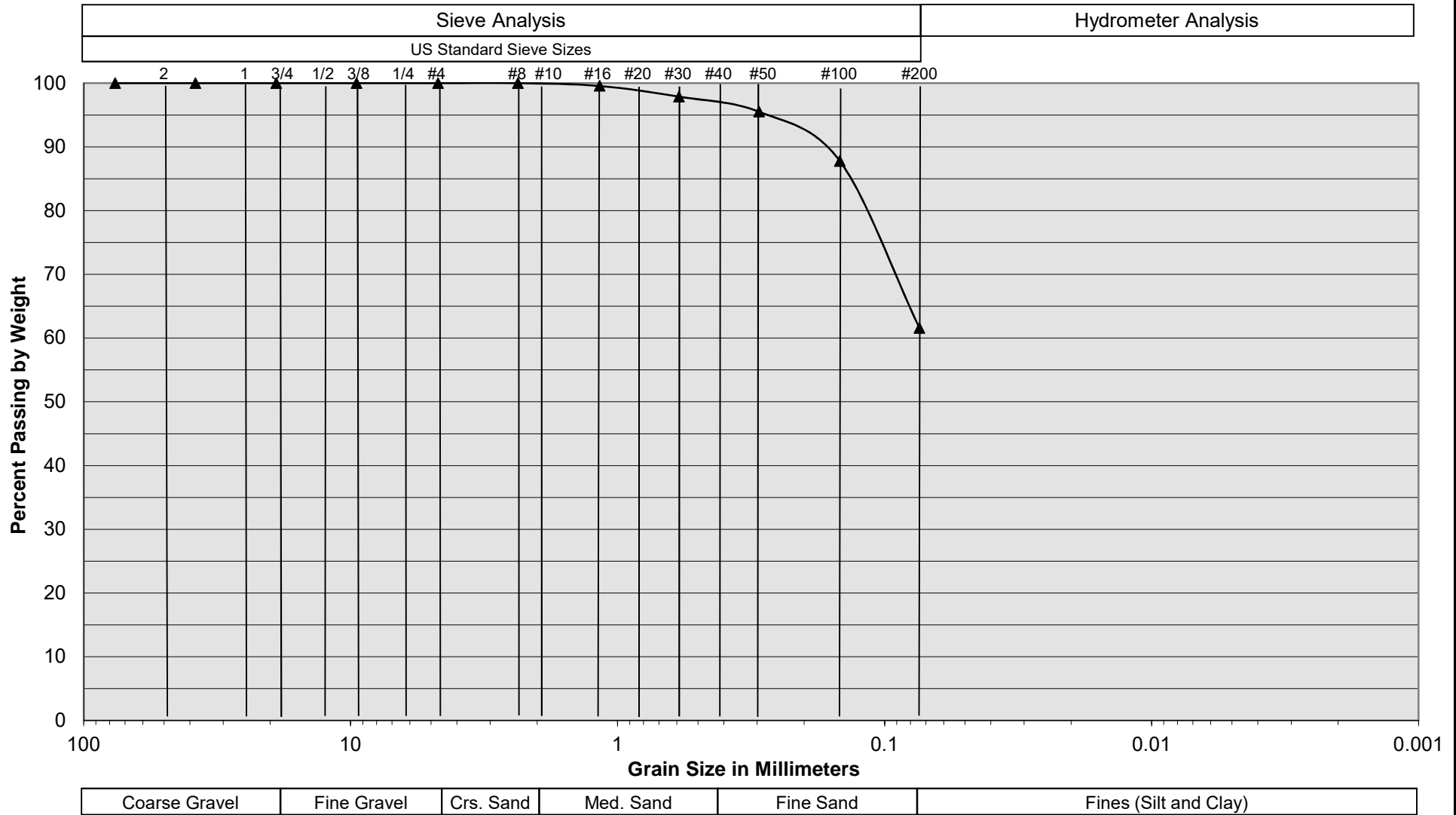
# Grain Size Distribution



Sample Description	I-1 @ 13½ to 15 feet
Soil Classification	Gray Brown fine Sandy Clay, trace Silt

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# Grain Size Distribution

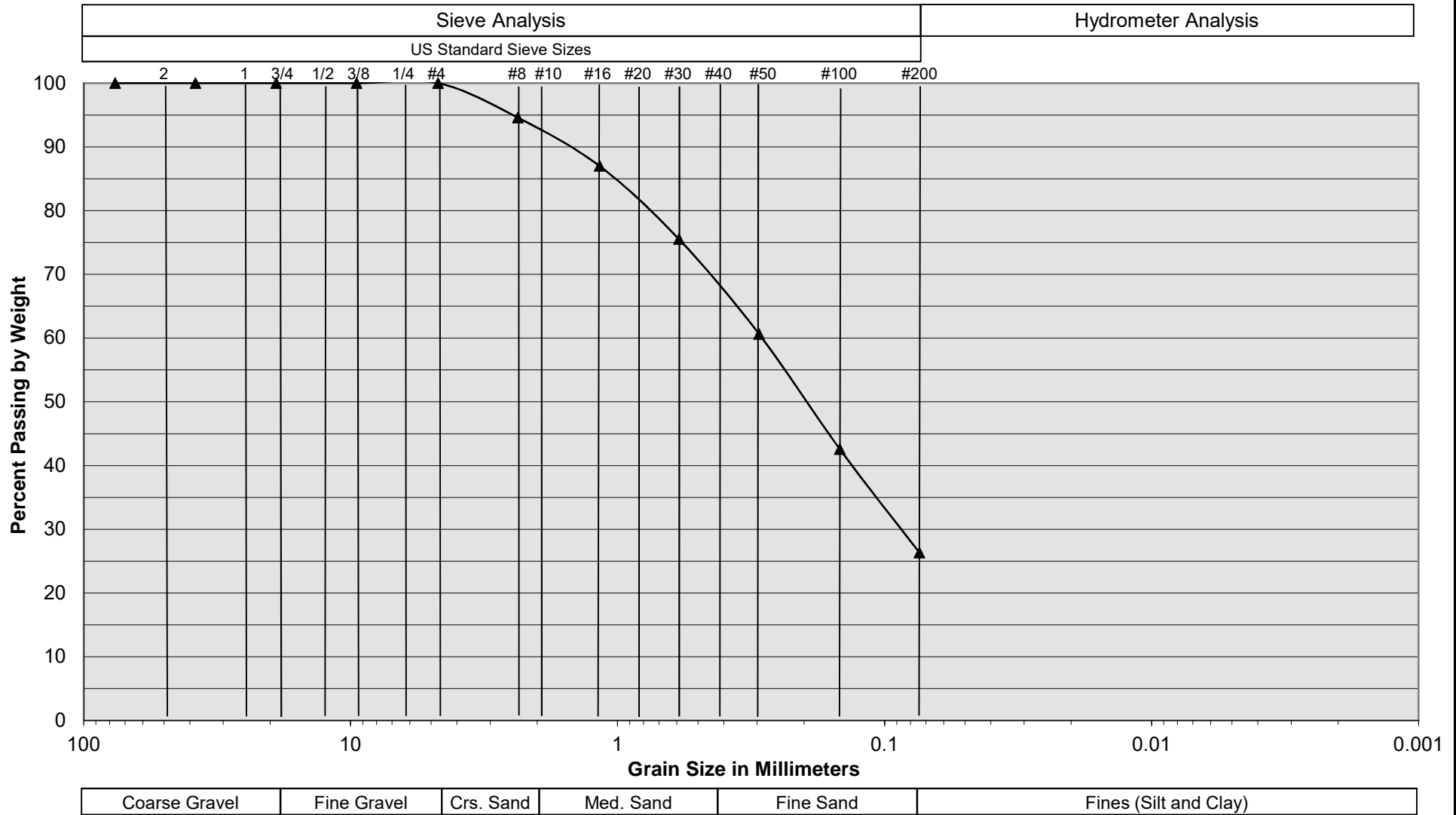


Sample Description	I-2 @ 14 to 15½ feet
Soil Classification	Gray Brown fine Sandy Clay

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**PLATE C-2**

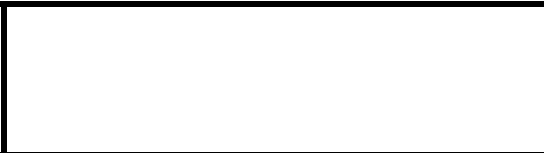


# Grain Size Distribution



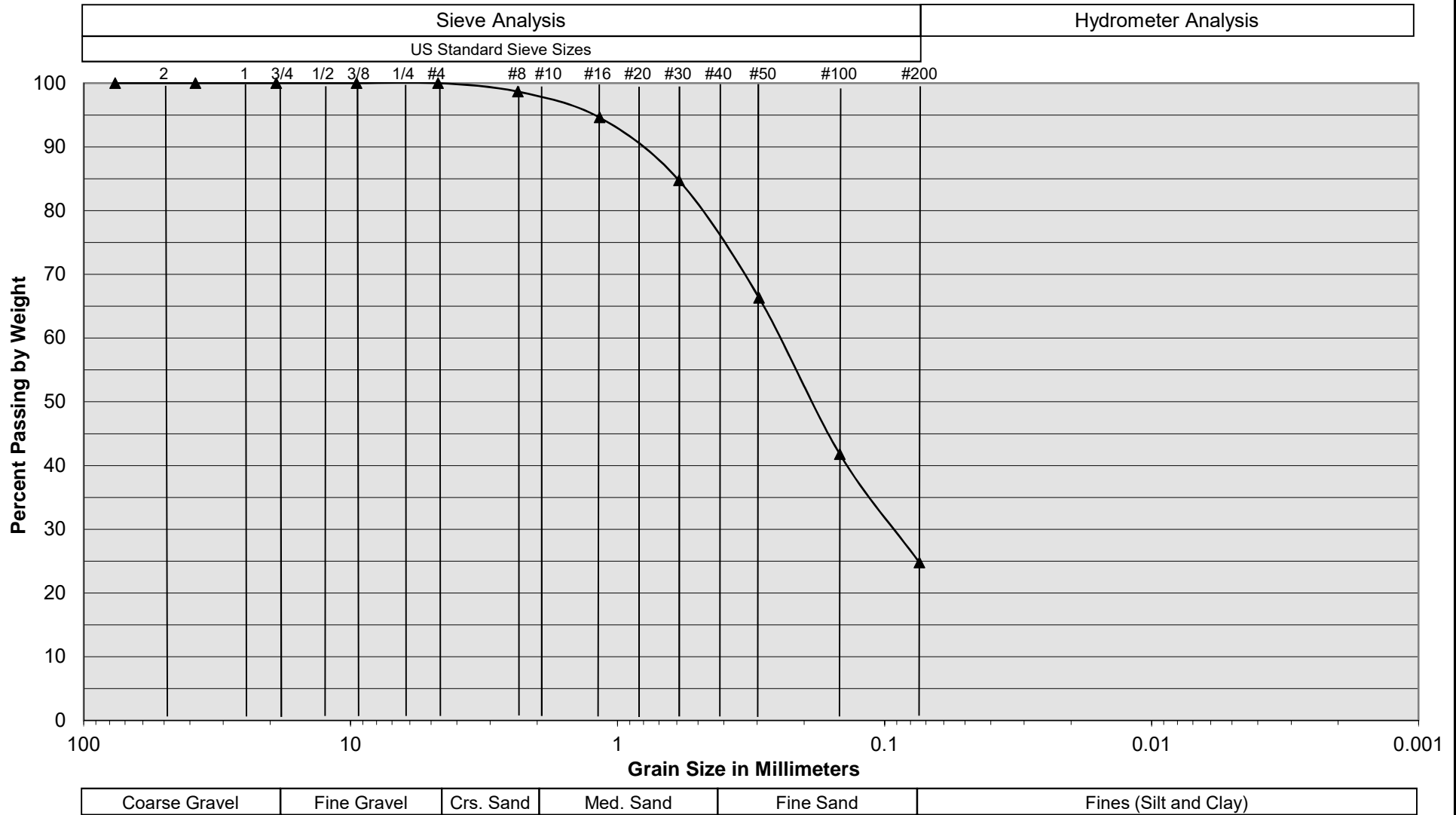
Sample Description	I-3 @ 12½ to 14 feet
Soil Classification	Light Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Clay

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**PLATE C-3**



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# Grain Size Distribution

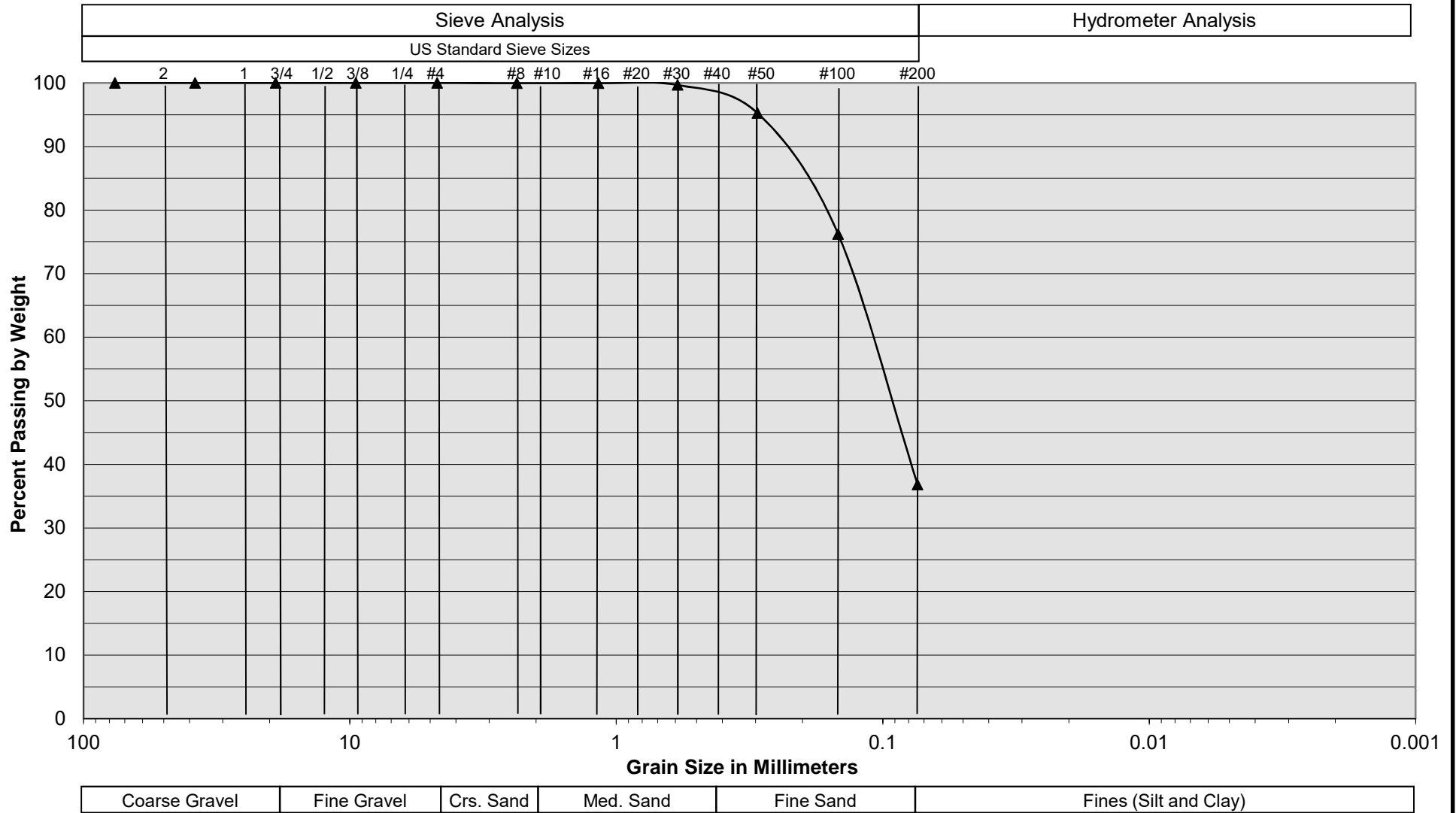


Sample Description	I-4 @ 15 to 16½ feet
Soil Classification	Light Brown Silty fine to medium Sand

Proposed Commercial/Industrial Development  
 Ontario, CA  
 Project No. 19G134-1  
**PLATE C-4**



# Grain Size Distribution



Sample Description	I-5 @ 17 to 18½ feet
Soil Classification	Light Gray Brown Silty fine Sand

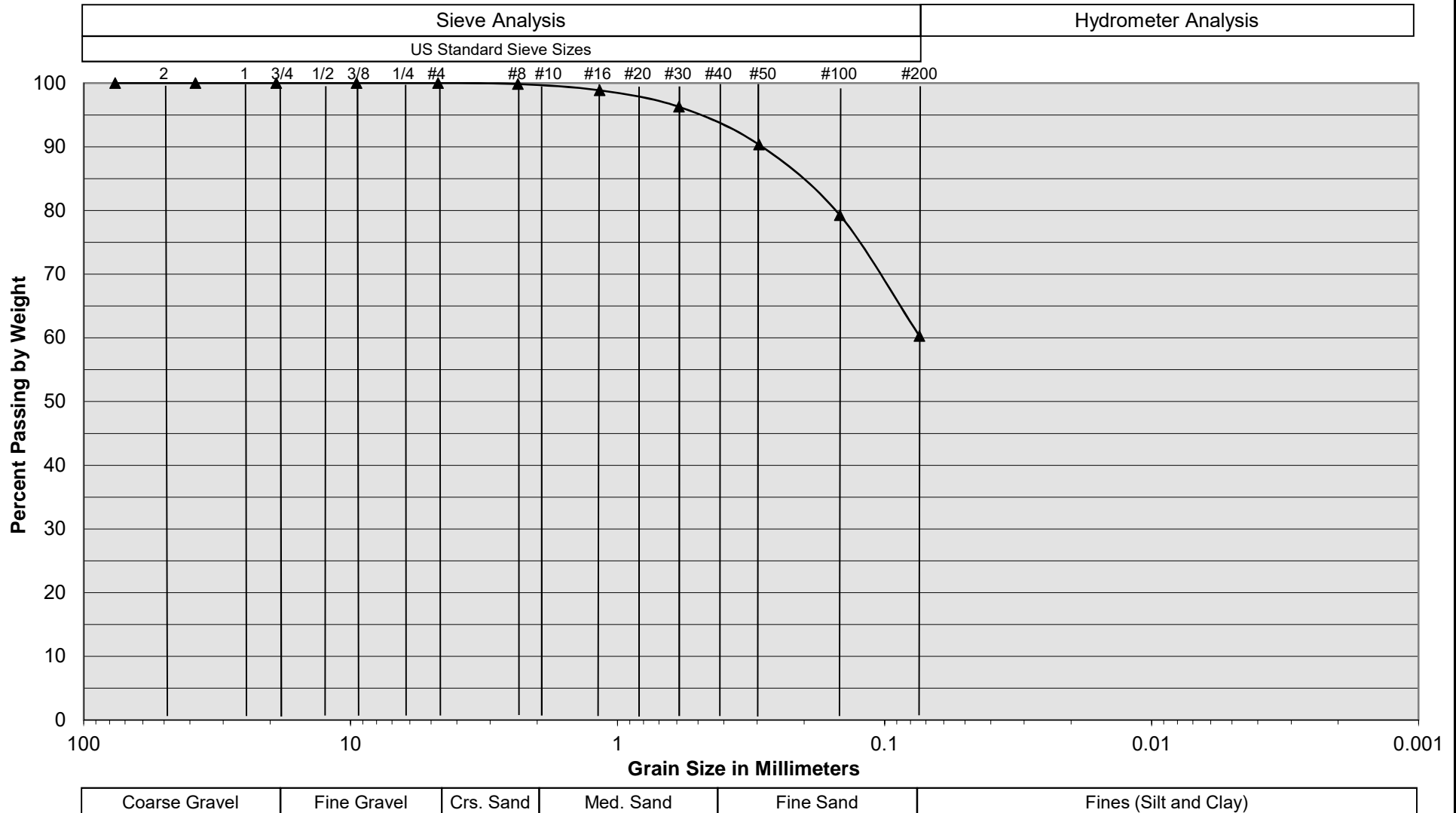
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 Project No. 19G134-1  
**PLATE C-5**





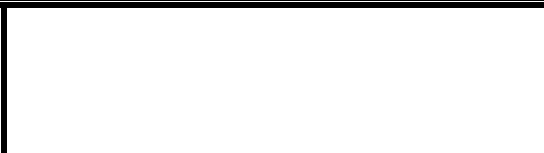
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# Grain Size Distribution



Sample Description	I-6 @ 14 to 15½ feet
Soil Classification	Gray Brown fine Sandy Clay, trace medium Sand, trace Silt

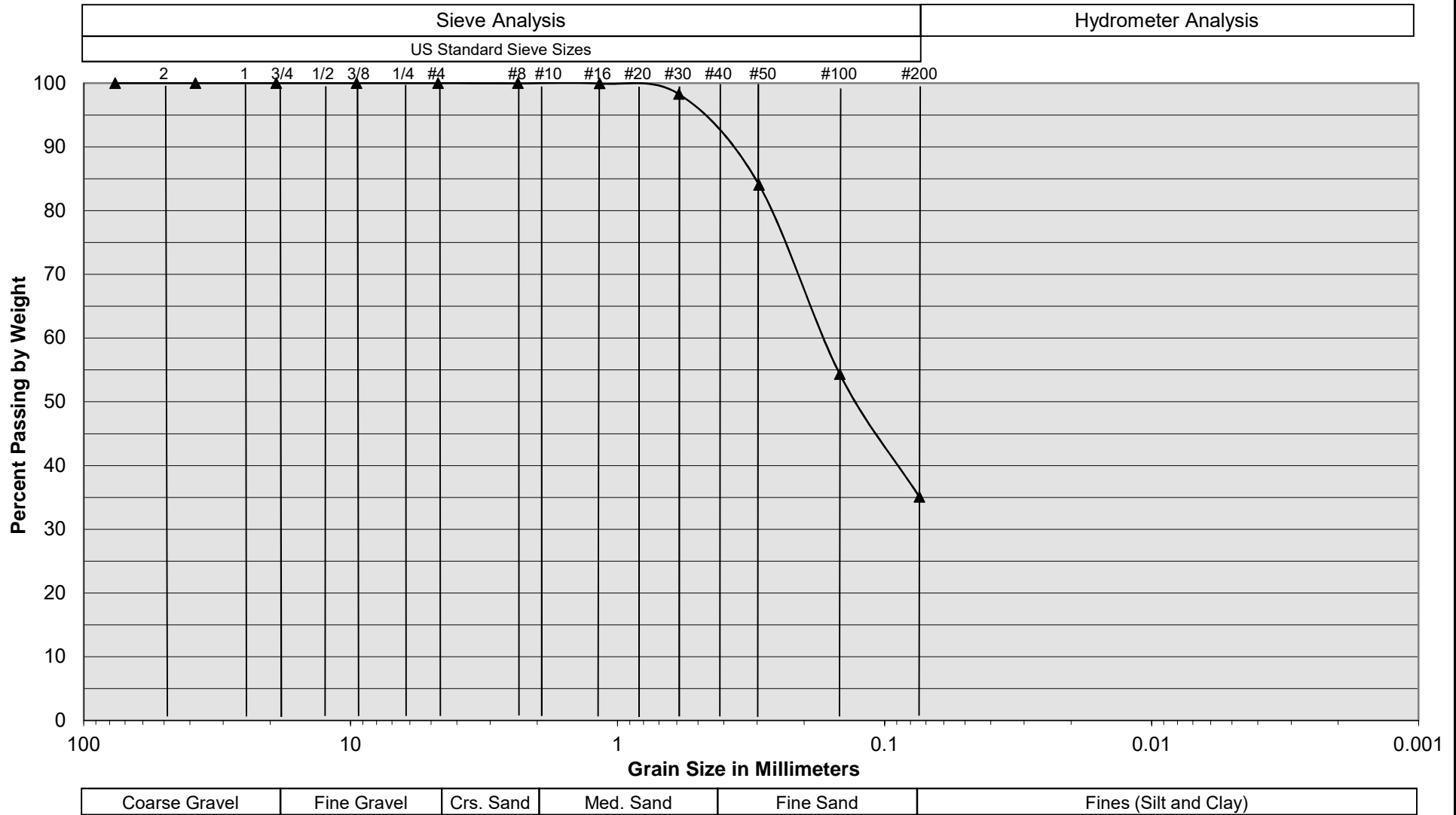
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**PLATE C-6**





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# Grain Size Distribution



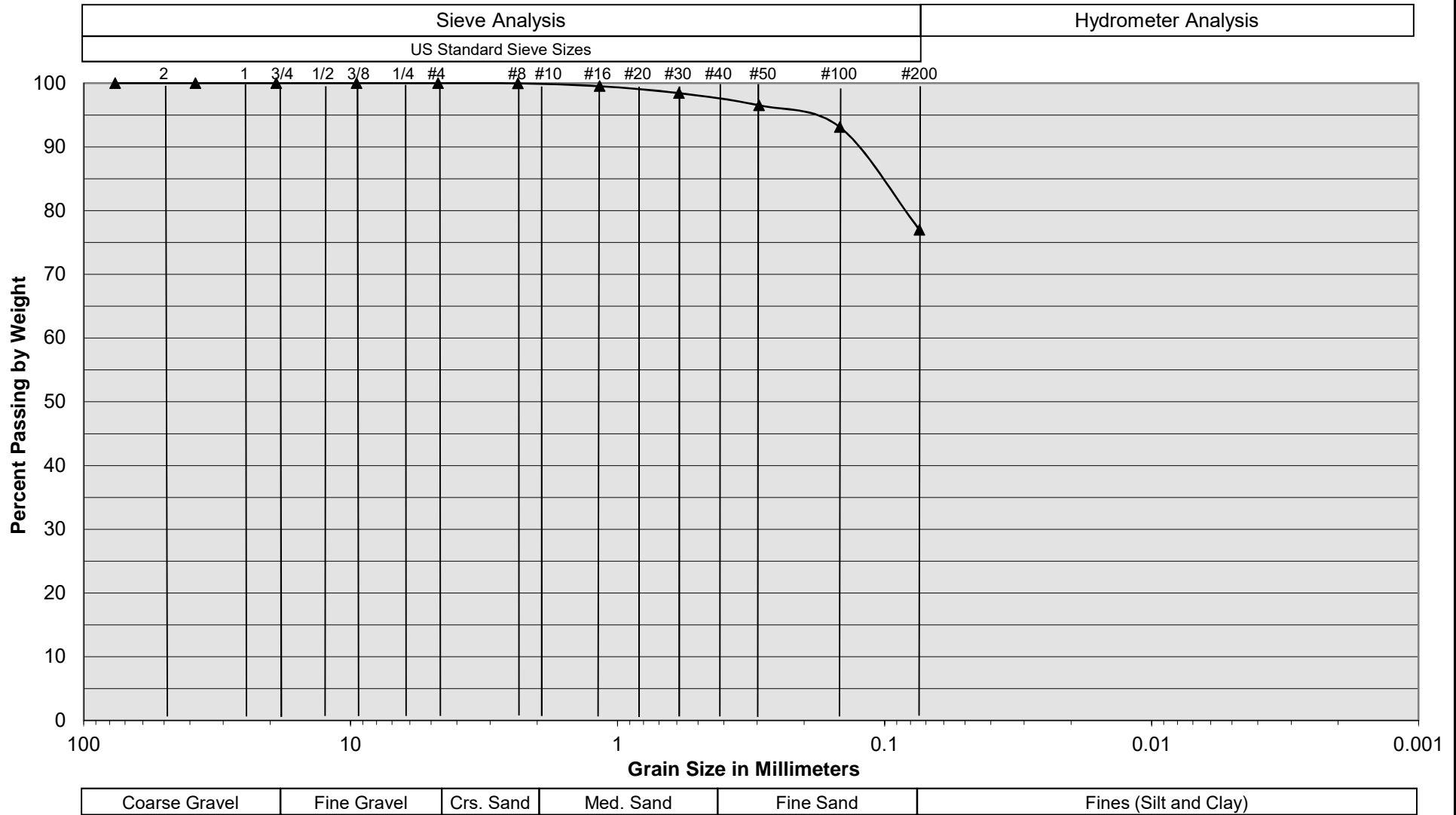
Sample Description	I-7 @ 18½ to 20 feet
Soil Classification	Light Gray Brown Clayey fine Sand, trace medium Sand

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**PLATE C-7**



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# Grain Size Distribution

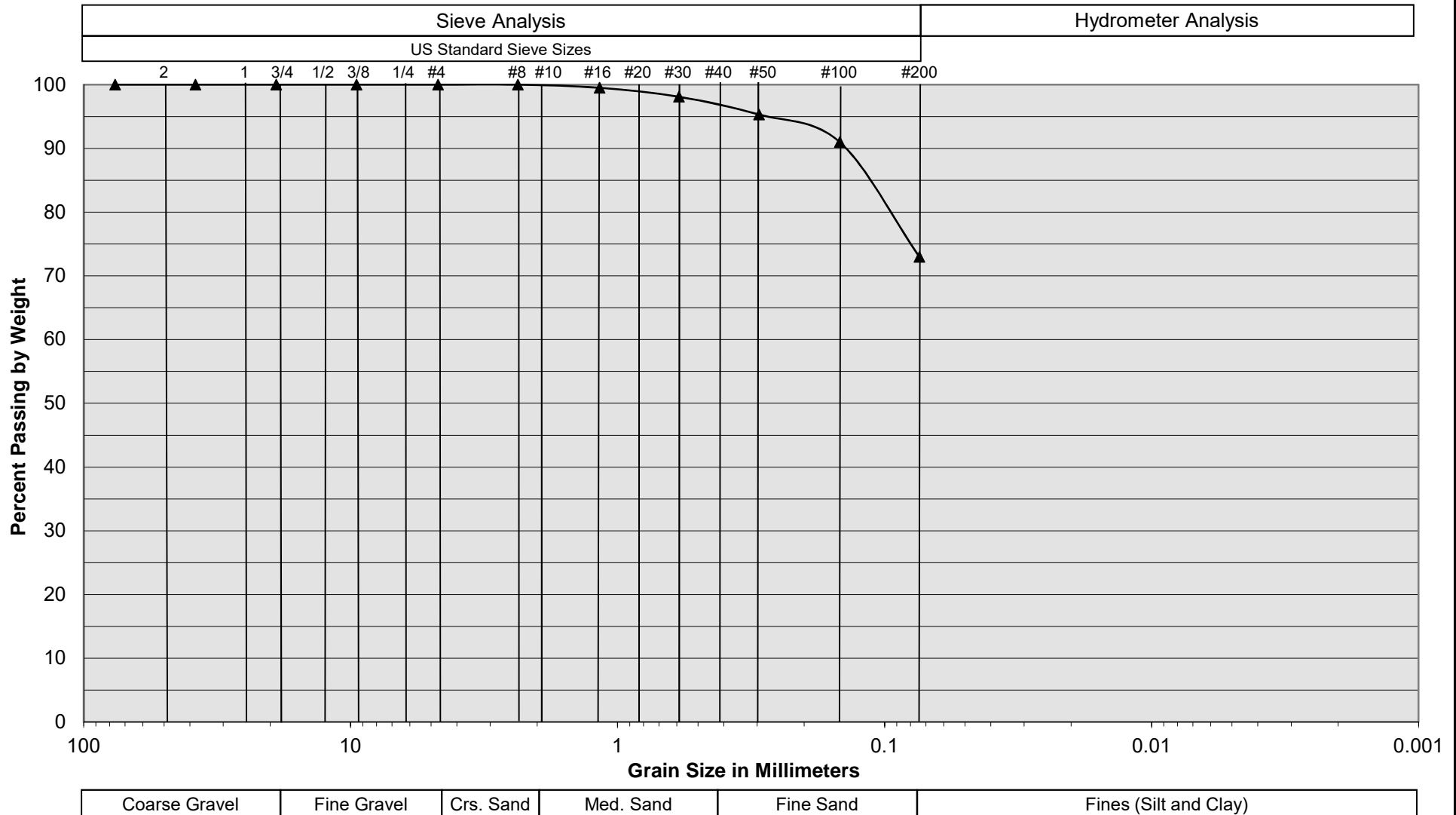


Sample Description	I-8 @ 10½ to 12 feet
Soil Classification	Gray Brown fine Sandy Clay, little Silt

Proposed Commercial/Industrial Development Ontario, CA Project No. 19G134-1 <b>PLATE C-8</b>		 <b>SOUTHERN CALIFORNIA GEOTECHNICAL</b> <small>A California Corporation</small>
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# Grain Size Distribution



Sample Description	I-9 @ 10½ to 12 feet
Soil Classification	Light Gray Brown fine Sandy Clay, trace Silt

Proposed Commercial/Industrial Development  
 Ontario, CA  
 Project No. 19G134-1  
**PLATE C-9**





**SOUTHERN CALIFORNIA GEOTECHNICAL**  
A California Corporation

**APPENDIX F**  
**HAZARDOUS MATERIALS REPORT**

**APPENDIX F1**  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

# GROUP



# DELTA

## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

South Ontario Logistics Center  
Ontario, California

Prepared for

### **REDA ACQUISITIONS**

4100 MacArthur Boulevard, Suite 120  
Newport Beach, California 92660

Prepared by

### **GROUP DELTA CONSULTANTS, INC.**

1035 South Milliken Avenue, Suite G  
Ontario, California 91761  
Group Delta Project No. EN381

October 11, 2018



# GROUP DELTA

## REDA Acquisitions

4100 MacArthur Blvd, Suite 120  
Newport Beach, California 92660

October 11, 2018  
Project No. EN381

Attention: Mr. Jason Krotts

SUBJECT: Phase I Environmental Site Assessment  
South Ontario Logistics Center  
Ontario, California

Dear Mr. Krotts:

Group Delta Consultants, Inc. is pleased to submit to REDA Acquisitions this Phase I Environmental Site Assessment report for the proposed development located in Ontario, California. This report discusses our project purpose, scope of work, execution of work, conclusions, and recommendations for the site. This Environmental Site Assessment was performed in general accordance with our proposal submitted on September 26, 2018.

We appreciate your selection of Group Delta Consultants for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Should you have any questions regarding this report, please feel free to call us at (949) 450-2100.

Sincerely,  
**GROUP DELTA CONSULTANTS, INC.**

Glenn Burks, Ph.D., P.E.  
Principal, Director of Environmental Services  
Environmental Professional

Elaine  
Staff Engineer

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Appendix A                      Preliminary Title Report

Appendix B                      Site Photographs

Appendix C                      Environmental Data Resources, Inc. Report (Radius Search Map, Sanborn  
Maps, Aerial Photographs, Topographic Maps & City Directories)

Appendix D                      Regulatory Database Review Maps

## EXECUTIVE SUMMARY

REDA Acquisitions (herein referred to as Client) has engaged Group Delta Consultants, Inc. (Group Delta) to perform a Phase I Environmental Site Assessment (ESA) for a 130.34-acre property located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue (Site) in Ontario, California. The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; 1054-231-01, -02. The Site is currently under consideration for redevelopment.

This Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13. This version of the ASTM standard complies with the Federal All Appropriate Inquiry (AAI) rule (40 Code of Federal Regulations [CFR] Part 312 – Standards and Practices for All Appropriate Inquiries). The purpose of the Phase I ESA is to review, evaluate, and document present and past land use and practices, and visually examine Site conditions in order to identify Recognized Environmental Conditions (RECs). The Phase I ESA included a Site reconnaissance, observation of adjacent properties, environmental regulatory agency records review, review of available historic documents, and an interview.

A Site reconnaissance was performed on October 4, 2018 as part of the ESA to observe current conditions throughout the Site. No observations of environmental concern were observed during the Site reconnaissance. No RECs were identified as a result of the Site reconnaissance. The Owner interview conducted during this Phase I ESA did not identify any RECs for the Site.

This assessment also included a review of available federal and state data reported by Environmental Data Resources (EDR), available regulatory agency environmental records, and available site history and records. The review did not identify any RECs for the Site. The review also included properties in the vicinity of the Site. Records indicated listed locations within ½ mile of the Site as listed in the EDR report. However, based on type of regulatory listing, regulatory status of the case, and/or location with respect to regional groundwater flow, the likelihood of Site contamination from an off-site source is considered low.

The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use.

This assessment has revealed no evidence of RECs in association with the Site, but one environmental concern:

- The former agricultural land use of the Site, beginning prior to 1938 and continuing to approximately 2005 is considered an environmental concern. This land use presents potential for residual organochlorine pesticides and arsenic commonly used on



agricultural land during the dates the Site was used for agriculture. These pesticides may persist in shallow soil on the Site.

The following are noteworthy considerations for the Site:

- Various hazardous materials are stored and used on the Site. In addition, per the interview with Ms. Gourdikian, used tractor oil is stored in a small tank next to the northwestern storage building adjacent to the chicken coop.
- Dairy farming on the Site presents the potential for elevated methane in soil-gas on the Site.
- Numerous structures onsite may contain hazardous building materials including asbestos and lead-based paint.
- There are a 2,000-gallon and 240-gallon AST on the Site. The 240-gallon AST was on concrete but did not have secondary containment.
- One or more septic systems are present on the Site.
- There are at least three water production wells on the Site.
- Three 1,000-gallon USTs were removed in March 1998. One UST contained diesel and two contained gasoline. The documentation provided by SBFD was sparse; however, residual concentrations detected in soil were considered low and the UST removal received case closure.

Based upon the findings and conclusions, Group Delta is providing the following opinions:

- A limited soil screening is recommended to assess for the presence of residual organochlorine pesticides and arsenic in the Site's soil.
- Hazardous materials and waste should be removed from the Site by the current owners prior to redevelopment in accordance with the Hazardous Materials Business Plan and under oversight from the Certified Unified Program Agencies (CUPA) (i.e., San Bernardino Fire Department (SBFD)).
- The City of Ontario may require a soil-gas survey for methane prior to development.
- A hazardous materials survey should be conducted on the Site's structures prior to demolition.
- The ASTs on the Site should be removed and receive closure from appropriate regulatory agencies.
- The SBFD issued case closure for three USTs removed from the Site in the late 1998. As a conservative measure, a limited Phase II site investigation could be considered for the area of the former USTs. At a minimum, earthwork in the vicinity of the former USTs should be monitored for indications of residual contamination.

## 1.0 INTRODUCTION

### 1.1 Background and Project Description

REDA Acquisitions (herein referred to as Client) has engaged Group Delta Consultants, Inc. (Group Delta) to perform a Phase I Environmental Site Assessment (ESA) for a 130.34-acre property located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue (Site) in Ontario, California. The Site is currently under consideration for commercial redevelopment.

### 1.2 Purpose

The purpose of the Phase I ESA is to review, evaluate, and document present and past land uses and practices, and visually examine Site conditions in order to identify Recognized Environmental Conditions (RECs). A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The REC term does not include *de minimis* conditions that generally do not present a threat to human health or the environment, and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

### 1.3 Detailed Scope of Work

Group Delta has interpreted American Society for Testing and Materials (ASTM) E1527-13 as the guidance document and used its provisions to the extent deemed appropriate for this report. In general, the scope of work included:

- Review of available information to describe the general geology and hydrogeology at the Site and adjacent areas;
- Search of regulatory records regarding possible hazardous material handling, spills, storage, or production at the Site or in its vicinity;
- Review of on-line available data including databases maintained by the Department of Toxic Substances Control (DTSC) and the State Water Resources Control Board (SWRCB);
- Perform agency records review of available files from the South Coast Air Quality Management District (SCAQMD), San Bernardino County Fire Department (SBFD), Department of Transportation Pipeline and Hazardous Materials Administration (PHMSA) National Pipeline Mapping System (NPMS), and Division of Oil, Gas, and Geothermal Resources (DOGGR) for onsite wells;
- Review of historic aerial photographs, historic topographic maps, Sanborn® fire maps, City Directories, and a radius map database search provided by Environmental Data Resources, Inc. (EDR);

- Reconnaissance of the Site and the immediately surrounding area to identify indicators of the existence of hazardous materials or RECs;
- Interview of an owner representative for the Site;
- Development of conclusions and findings, and;
- Preparation of a report describing the assessment and presenting the results and findings.

A statement of interpretive limitations is contained in Section 1.5 of the report.

#### **1.4 Significant Assumptions**

As stated in the previous section, this ESA was conducted in general accordance with ASTM E1527-13 to the extent deemed appropriate. This was done to identify and analyze environmental conditions that constitute existing, past, or potential environmental risks associated with the Site. Performance in accord with this standard is intended to reduce, but not eliminate uncertainty with respect to the potential for RECs associated with the Site.

#### **1.5 Limitations and Exceptions**

This ESA report is intended for the sole use of the Client and on the specific project identified. Our services have been performed under mutually agreed-upon terms and conditions. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services can be established prior to their use and reliance of this report and the information it contains.

The findings and opinions presented are relative to the dates of our Site work and should not be relied on to represent conditions at substantially later dates. The opinions included herein are based on information obtained during the study and our experience. If additional information becomes available, which might impact our environmental findings, we request the opportunity to review the information, reassess the potential conditions, and modify our opinions, if warranted.

Although this assessment has attempted to identify the potential for environmental impacts to the Site, potential sources of contamination may have escaped detection due to: (1) the limited scope of this assessment, (2) the inaccuracy of public records, and/or (3) the presence of undetected or unreported environmental incidents.

It was not within the scope of this assessment to address issues not included in ASTM E1527-13 (such as radon, lead in drinking water, naturally-occurring hazardous materials or vegetation, endangered species, wetlands, etc.). Furthermore, it was not the purpose of this study to determine the degree or extent of contamination, if any, at the Site.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants practicing in this or

similar localities. No other warranty, expressed or implied, is made regarding the professional information in this report.

### **1.6 Special Terms and Conditions**

All appropriate inquiry (AAI) into the prior uses of the Site was made in accordance with good commercial and customary practices to identify and analyze RECs constituting existing, past or potential environmental conditions in connection with the Site.

There are no special terms and conditions that apply to the preparation of this report.

### **1.7 User Reliance**

This assessment was performed at the request of the Client, utilizing methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards. The assessment and conclusions presented in this report represent the best professional judgment of the Environmental Professional based on the conditions that existed during the assessment and the information and data available to us during the course of this assignment.

Factual information regarding operations and conditions provided by the Client, owner, or their representative has been assumed to be correct and complete.

The report may be distributed and relied upon by the Client, its successors and assigns. Reliance on the information and conclusions presented in this report by any other party or parties is not authorized without the written consent of Group Delta.

## **2.0 SITE DESCRIPTION**

### **2.1 Location and Legal Description of the Site**

The Site is comprised of 130.34 acres of dairy farm land located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue, in the City of Ontario, San Bernardino County, California (Figure 1). The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; and 1054-231-01, -02.

A complete legal description of the Site is contained in the Preliminary Title Report provided by the Client. The Preliminary Title Report is presented as Appendix A.

### **2.2 Site and Vicinity General Characteristics**

The Site is irregular-shaped and is composed of thirteen (13) adjoining parcels. The Site is operational as a dairy farm or farms and contains multiple single-family residences distributed amongst the dairy areas. The Site is relatively flat.

The Site's vicinity is generally characterized by rural land uses consisting primarily of dairy farming. The Chino Airport is located immediately south of the Site beyond Merrill Avenue.

### **2.3 Current Use of the Site**

The Site is currently used as a dairy farm with single-family residences.

Photographic documentation of the Site is provided in Appendix B.

### **2.4 Site Geology**

The site is located within the Peninsular Ranges geomorphic province of California. This province is typically characterized by rugged north-south trending mountains separated by subparallel faults, and a coastal plain of subdued landforms underlain by sedimentary formations. Based upon available published geology maps, the site appears to consist of young eolian and alluvial fan deposits (Holocene and late Pleistocene) originating from the San Gabriel and San Bernardino Mountains to the north. Based upon the published mapping for the area, these young eolian and alluvial fan deposits are generally composed of unconsolidated cobbles, gravel, and sand deposits.

### **2.5 Site Hydrology**

The Site is located approximately 1.6 miles west of Cucamonga Creek. The Deer Creek drains to the Cucamonga Creek approximately 600 feet south of the proposed Schaefer Avenue Bridge. The Cucamonga Creek eventually drains towards the Chino Creek and the Santa Ana River. The groundwater in the hydrologic unit is used for municipal, agricultural, and recreational purposes.

Site specific groundwater data was not readily available. As site-specific data was unavailable, groundwater data was reviewed in the Site's vicinity using the California Department of Water Resources Groundwater Information Map. The approximate depth to groundwater at this site is reported at approximately 120-140 feet below ground surface (bgs); however, groundwater underlying the nearby creeks may be shallower. Groundwater at this location likely flows in a southerly direction based on the proximity to the Cucamonga Creek and eventual drainage to the Chino Creek and Santa Ana River.

## **2.6 Current Uses of Adjacent Properties**

The properties to the north, east, and west of the Site are dairy farms and farms. The Chino Airport is located immediately south of the Site beyond Merrill Avenue.

### **3.0 USER PROVIDED INFORMATION**

#### **3.1 Title Records**

A preliminary title report was provided to Group Delta. A copy of the report is in Appendix A.

#### **3.2 Environmental Liens or Activity and Other Use Limitations (AUL)**

No reports of environmental liens or AULs were provided by the User during this ESA or identified in the title report.

#### **3.3 Owner/Occupant Interviews**

##### **3.3.1 Current Owners**

Ms. Linda Gourdikian and Mr. George Borba, two of the multiple Owners of the Site completed the Owner Questionnaire regarding any knowledge about present or past land use at the Site that may be of environmental concern on October 10, 2018. According to Mr. Borba, the west portion of the Site was used for corn, wheat, and barley agriculture through 2003 and is now used as pasture grazing. According to Ms. Gourdikian, land use at the Site has historically been dairy farming and agriculture. Ms. Gourdikian stated no hazardous waste use, illicit dumping, or unauthorized releases have occurred at the Property, to her knowledge. According to Ms. Gourdikian, at least one underground storage tank (UST) was removed from the Site in the 1980s. No documentation of removal was provided to Group Delta by the Owners. See section 5.2.1 San Bernardino Fire Department for more information regarding the UST removals.

Group Delta also received information regarding current Owners of the Site from Ms. Christine Buckle of Hillwood. According to Ms. Buckle, current Owners of the Site include POCAMO, LLC, a California limited liability company; George Borba, Jr. and Linda Borba Gourdikian, as Trustees of the Survivor's Trust created under the George Borba Family Trust dated April 12, 1990, as amended; George Borba, Jr. and Linda Borba Gourdikian, as Trustees of the Marital Trust created under the George Borba Family Trust dated April 12, 1990, as amended; and George Borba, Jr., an individual as of April 2018.

##### **3.3.2 Previous Owners**

The previous owner(s) of the Site was not identified during this Phase I ESA.

#### **3.4 Reason for Performing ESA**

The purpose of the ESA is to identify apparent and potential sources of contamination for the Site that, by their association or proximity to the Site, could represent an REC. This report can serve to identify environmental conditions at the Site that may impact the proposed project and may permit the User to satisfy one of the requirements to qualify for the bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation and Liability

Act (CERCLA) liability (42 U.S.C. §9601). It was not the purpose of this study to determine the degree or extent of contamination, if any, but rather to identify the potential for contamination or environmental concern.

### **3.5 Review of Existing Site Reports**

The User provided one study report prepared for the Site. A summary of the summary report provided to Group Delta is as follows:

1. Phase I Environmental Site Assessment, Athanor Environmental Services Inc., October 2017

After review of the Phase I provided by the User, no issues of environmental concern were noted.



## **4.0 ENVIRONMENTAL DATA SEARCH**

### **4.1 Database Information on the Site and the Adjacent Properties**

#### **4.1.1 Standard Environmental Record Sources for the Site and Vicinity**

Group Delta conducted a review of reasonably ascertainable environmental regulatory agency databases to identify known or suspected environmental concerns or RECs that may be associated with the Site. A search of readily available environmental records was obtained from EDR of Shelton, Connecticut (Appendix C). The purpose of the regulatory database report review was to evaluate to the extent possible whether prior activities, processes, operations, or actions on the Site, adjoining properties, and nearby locations have the potential to adversely impact the environmental integrity of the Site, are suspected sources of environmental contamination, or present RECs for the Site. The regulatory database report provides information regarding current operations and prior regulatory listings for the Site and previous owners and/or operators on the Site. The presence or absence of information about the Site does not necessarily mean that there are or are not environmental issues associated with the Site.

The regulatory database report includes a list of government databases searched, a statistical profile listing the number of properties within ASTM Standard Practice specified search radii, selected detailed information from environmental regulatory agency databases, and a map illustrating the identified properties, sites, or facilities of interest.

The regulatory database report provides a mechanism to evaluate a relatively large number of environmental regulatory agency databases and eliminate many properties, sites, operations, and/or facilities that have a low potential of adversely impacting the Site. However, it should be noted that the information included in the regulatory database report is not necessarily all-inclusive and environmental regulatory agency files may have been purged by public officials prior to release to the public. In addition, mapping errors may not reflect actual distances and directions between the Site and the properties, sites, operations, and/or facilities listed in the regulatory database report.

The regulatory database report includes information from federal, state, local, military, and tribal environmental regulatory agency databases.

#### **4.1.2 Site Records**

Table 1 provides a summary of databases the Site was identified on in the EDR regulatory database report. The table includes the operating business name and address associated with the listing; Map ID number of the listing; associated database(s) on which the listing occurs; and a summary of information pertaining to the listing.

**Table 1: Site Findings**

<b>Environmental Atlas Findings – Site Findings</b>
<b>George Borba &amp; Son Dairy – 7955 Eucalyptus Ave, Chino, CA</b>
Map Key Number A1 – A7
EDR Listing of Concern and Associated Databases: AST, NPDES, WDS, HIST UST, AST, ENF, HAZNET, CA FID UST, FINDS, ECHO
Summary of Listing: This Site was identified on the AST database as having an aboveground storage tank (AST). The Site was also identified on the NPDES and WDS databases as a facility that treats and/or disposes of wastes associated with confined and concentrated animal feeding, confined animal holding, confined and concentrated aquatic animal production facilities, and/or aquaculture. The Site also has a historical UST listed. No other information regarding the historical UST is provided by EDR. The Site also was reported on the HAZNET database as having waste oil and mixed oil recycling onsite, an active UST, and an AST. No other information is provided.
For more information regarding this listing, see section 5.2 Local Department Records

#### **4.1.3 Vicinity Records Search**

Multiple sites were listed in the EDR database radius search for the project area. The radius search area included the project limits and a one-mile radius from the project limits. Numerous properties within this search area were listed on the EDR database and were found not to pose a hazardous waste impact based on the following criteria, or a combination thereof:

- The regulatory case status of the property is identified as completed and closed;
- The type of media affected was identified as soil only;
- The release was in nominal amounts or concentrations as to not present a hazardous waste impact concern to the project;
- The listing was identified on low-hazardous risk databases (i.e., underground storage tank [UST] HAZNET, small quantity generator databases) with no reported spills, cleanups, or violations;
- The property is identified on a low-hazardous risk database as receiving one or more violations, but the nature of violations received was associated with financial, administrative, or record-keeping practices only;
- The distance of the listing to project limits is great enough that it does not present a hazardous waste impact concern to the project, and/or;
- The listing is down-gradient or cross-gradient from the project limits.

Based on these criteria, these listings are not considered an environmental concern to the project and were not evaluated further.

Table 2 provides a summary of properties in the vicinity of the site identified on high-hazardous risk databases (LUST) in the EDR regulatory database report. Table 2 includes the operating

business name and address associated with the listing; Map ID number of the listing; associated database(s) on which the listing occurs; and a summary of information pertaining to the listing.

**Table 2: Site Vicinity Findings**

<b>Environmental Atlas Findings – Site Vicinity Findings</b>
<b>Private Residence – Private Residence, Chino, CA</b>
Map Key Number D15
EDR Listing of Concern and Associated Databases: LUST
This property is located north and upgradient to the Site and is listed on the LUST database.  A leaking UST was reported to be discovered on January 2004, with potential contaminants of concern as diesel and gasoline in soil. A soil and water investigation report was prepared and reportedly submitted February 2006. Remediation was conducted on the property in April 2004. A no further action (NFA) letter was reportedly issued in October 2006.  For more information pertaining to this listing, refer to Section 5.1.2 – State Water Resources Control Board.
<b>CAL-AERO FIELD / ACADEMY</b>
Map Key Number E21
EDR Listing of Concern and Associated Databases: LUST
This listing is located south-adjacent and downgradient to the Site and is listed on the Envirostor database. The status of this listing is reported as inactive and needing evaluation as of July 2005.  No other information is listed in EDR.  For more information pertaining to this listing, refer to Section 5.1.1 – Department of Toxic Substances Control (DTSC) and Section 5.1.2 – State Water Resources Control Board.

A copy of the Radius Search Map is provided in Appendix C.

## **4.2 Historical Use Information on the Site and Adjoining Properties**

Group Delta reviewed available historical information to ascertain the historical uses of the Site and the adjoining properties. Reviewed information included Sanborn insurance maps, historic aerial photographs, historic topographic maps, and city directories.

### **4.2.1 Sanborn Map Review**

Group Delta reviewed a certified Sanborn map report prepared by EDR. After a complete search of the Sanborn Library and fire insurance maps by EDR, fire insurance maps of the target property were not found.

A copy of the Sanborn search findings is provided in Appendix C of this report.

#### 4.2.2 Historical Aerial Photography and Topographic Map Review

Aerial photographs and historical topographic maps of the Site and adjoining properties were provided by EDR and reviewed to identify historical land development. Photographs and historical topographic maps dating between 1902 and 2014 were reviewed. Table 3 and 4 summarizes the results of the topographic map and aerial photograph review. Copies of the aerial photographs and topographic maps provided by EDR are included as Appendix C.

**Table 3: Summary of Topographic Map Review**

Summary of Topographic Map Review			
Year	Source and Scale	Summary	
1902	Topographic Map 30-minute	Due to the scale of the maps from 1902, no inferences regarding land use for the Site, adjacent properties, or surrounding vicinity could be ascertained.	
1933 through 1947	Topographic Map 7.5-minute	The Site is depicted in a rural setting with between three and seven structures shown on Site.	The Site's vicinity is also shown as rural.
1949 through 1954	Topographic Map 7.5-minute	No changes are depicted.	Cal-Aero Flight Academy (Deactivated) is depicted immediately south of the Site.
1973 through 2012	Topographic Map 7.5-minute	Additional structures are depicted on the Site associated with dairy farming.	The former Cal-Aero Flight Academy (Deactivated) is identified as the Chino Airport.

**Table 4: Summary of Aerial Photography Review**

Summary of Aerial Photography Review			
Year	Source and Scale	Summary	
1938	Aerial Photographs 1:500	With the exception of a few structures, the entire Site was used for agriculture.	The Site's vicinity is also shown as agricultural.
1946	Aerial Photographs 1:500	No major changes are evident.	Cal-Aero Flight Academy (Deactivated) is evident immediately south of the Site. Hundreds of airplanes were stored at this facility.  No other major changes are evident.
1948 through 1953	Aerial Photographs 1:500	No major changes are evident.	All of the airplanes were removed from Cal-Aero Flight Academy.  No other major changes are evident.

1966 through 1975	Aerial Photographs 1:500	The Site can be seen undergoing a transformation into a dairy farm with additional dairy-related structures being built during this period. The western half of the Site continued to be used for agriculture.	The Site's vicinity also underwent a transition from farming to dairy during this period.
1987 through 2014	Aerial Photographs 1:500	<p>Throughout this period, additional structures associated with dairy farming were built, primarily on the eastern half of the Site.</p> <p>The western half of the Site continued to be used primarily for agriculture.</p> <p>Beginning in 2006, retention ponds were present on the southwestern portion of the Site</p>	<p>Development of the Chino Airport to the south is evident beginning in 1987, including what appear to be hangars.</p> <p>The Site's vicinity continued to be used primarily for dairy with some agriculture.</p>

Representative aerial photographs and topographic maps are included in Appendix C.

#### 4.2.3 City Directory Report

The EDR City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. City directories generally include listings of residents or businesses organized both alphabetically and alphanumerically by street names and street addresses and are prepared for many urban and suburban areas of the United States dating back to the early 1900s.

Group Delta reviewed the city directory search prepared by EDR. The search was performed for the Site and the adjacent properties. According to the city directory, the vicinity of the Site was mainly comprised of residences and businesses related to dairy and agriculture. No businesses that would present an environmental concern to the subject Site were identified. No RECs were identified as a result of the review of the EDR City Directory Report.

The city directory search results prepared by EDR are presented in Appendix C.

## 5.0 REGULATORY AGENCY RECORDS

### 5.1 Online Available Records

#### 5.1.1 Department of Toxic Substances Control (DTSC)

Group Delta reviewed available files of the State of California DTSC published on the internet records database Envirostor. The purpose of this search was to identify any evidence of unauthorized releases of hazardous materials to the surface, subsurface soil, and groundwater.

The Site was not identified on the Envirostor database.

One site was identified in the vicinity of the Site. A summary of the case associated with the cleanup sites is provided below.

1. CAL-AERO FIELD / ACADEMY (80000986)

This listing is located south-adjacent and downgradient to the Site. No site history was available on the Envirostor database. This case is listed as inactive and needing evaluation as of July 2005.

For more information regarding this listing, see section 5.1.2 State Water Resources Control Board (SWRCB) – 2. Chino Airport

#### 5.1.2 State Water Resources Control Board (SWRCB)

Group Delta reviewed available files through the online GeoTracker database maintained by the California SWRCB. GeoTracker maintains files related to UST facilities, LUSTs, site clean-ups, disposal sites, wells, and information related to hazardous materials and/or waste.

The Site was not identified on the GeoTracker database,

One LUST Cleanup Site was identified in the vicinity of the Site. A summary of the case associated with the cleanup sites is provided below.

1. Private Residence – Ferreira Dairy, 14400 S Grove Avenue, Chino, CA

The facility is located approximately 580-ft north and upgradient of the Site.

According to GeoTracker, in January 2004, a Phase I Environmental Assessment was conducted as part of a pending property transfer from the current owner, Mrs. Leontina Ferreira, to the Stratham Group, a residential developer. The Phase I identified the following areas of concern: over 30 years of agricultural activities, hazardous materials storage associated with agriculture, two septic systems, a drinking water well, an irrigation well, two 500-gallon ASTs for gasoline and diesel fuel, and two USTs that had been removed in December 1994. San Bernardino County issued tank permits in May of

2004, identifying Mr. Joe C. Ferreira, Jr. as the tank operator who removed the tanks himself in 1994. The two 1,000-gallon USTs stored gasoline and diesel fuel.

According to Mrs. Leontina Ferreira, no subsurface investigation was conducted at the time of the tank removal. Based on the recommendations in the Phase I report, a Phase II Environmental Assessment was conducted in February 2004, to assess the impacts to soil from past agricultural activities and the operation of the USTs at the site. Eleven borings were drilled to a maximum depth of 50 feet in the UST area and five borings were advanced to 2.5 feet within the agricultural areas.

Pesticides were detected in shallow soil at concentrations below the Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs) for residential soil published by the U.S. EPA Region 9 at the time. Therefore, no further action was recommended regarding the pesticides.

Petroleum hydrocarbons were detected in soil from approximately 5 to 30 feet below surface. The highest concentrations of total petroleum hydrocarbons as diesel fuel (7,400 milligrams per kilogram [mg/kg]), ethylbenzene (69 mg/kg), and xylenes (1,300 mg/kg) were detected in a soil sample collected at a depth of 10 feet. The highest concentration of toluene (88 mg/kg) was detected in a sample collected from a depth of 24 feet. Excavation of the impacted soil and additional assessment were recommended.

On April 21, 2004, six more borings were drilled to determine the vertical and lateral extent of petroleum hydrocarbons in soil in the former UST area. Then, from April 27 to April 30, 2004, seventeen overlapping 5-foot-diameter borings were drilled to depths ranging from 32 to 50 feet in order to remove contaminated soil without destabilizing the adjacent residential building.

Confirmation samples collected at the bottom of the borings and along the sidewalls demonstrated that the core contamination had been removed.

On May 4, 2004, the excavated soil was transported to Thermal Remediation Solutions (TRS) in Azusa, California for reclamation. The County of San Bernardino Fire Department reviewed the reports documenting the environmental assessment and remediation and determined that the case status required Regional Water Quality Control Board (RWQCB) involvement.

At the request of Regional Board staff during a meeting in September 2005, an additional boring was drilled to confirm the vertical extent of contamination and to evaluate potential groundwater conditions beneath the site.

On December 22, 2005, the boring was drilled to a depth of 101.5 feet in the central part of the former release. No groundwater was encountered during drilling. Soil samples

collected at 5-foot intervals from 55 to 90 feet were analyzed for total petroleum hydrocarbons (TPH) as diesel fuel and volatile organic compounds (VOCs). No TPH or VOCs were detected in the soil.

Subsequently, no further action for this property was recommended by the RWQCB due to the following reasons: the USTs were removed in 1994; assessment activities defined the lateral and vertical extent of the contamination; contaminated soil was excavated from former tank areas as confirmed by field verification sampling; confirmation sampling demonstrated that most of the contamination had been removed; benzene and fuel oxygenates were not detected on the site prior to site assessment activities, and; groundwater was estimated to be 120 feet bgs, or approximately 90 feet deeper than the residual petroleum hydrocarbons remaining at 32 mg/kg in the soil.

Due to the regulatory status of this property, this listing is not considered a REC to the Site.

2. Cal-Aero/Chino Airport – 7000 Merrill Avenue, Chino, CA

The facility is located south-adjacent and downgradient to the Site.

According to GeoTracker, the following is a history of the site:

During the early 1940s, Chino Airport (airport) was owned by the Federal Government and was used for flight training, aircraft storage, and sales. San Bernardino County Department of Airport (department) acquired the airport in December 1948 and leased the property to Pacific Aero-motive Corporation, which operated a modification facility for military aircraft. The airport became public in 1960. Napalm, bombs, and other incendiary devices were manufactured for the federal government during the 1960s and early 1970s. Past and present businesses and activities at the airport included a flight academy, aircraft sales and storage, modification of military aircraft, crop dusting, aircraft engine repair shops, aircraft painting, stripping and washing, a dispensing facility for the application for fire retardant chemicals for forest fires, and a maintenance and operation facility for United States Forest Service (USFS) aircraft. Use of organic solvents at the airport was widespread and varied due to the manufacturing activities at the airport.

In 1986, Camp Dresser & McKee, Inc., sampled wells in the Chino area to provide information for an environmental impact report for the Metropolitan Water District's proposed Chino Basin Groundwater Storage Program. The analytical results indicated trichloroethylene (TCE) present in at least five wells at levels exceeding the Maximum Contaminant Level (MCL) for drinking water of 5 parts per billion (ppb). Concentrations in wells ranged from 6.0 to 75.0 ppb.

By October 1986, an investigation of potential sources of TCE began by sending questionnaires to 25 possible responsible parties.



In 1988, production wells in the vicinity of the airport were sampled. Many wells were used primarily for irrigation of agricultural lands; however, an unknown number of these wells had some private domestic uses as well. The results of these samples confirmed that groundwater contamination from organic solvents at concentrations above MCLs existed in at least six wells down gradient of the airport. The contaminant plume also included tetrachloroethylene (PCE). Sampling of wells upgradient of the airport revealed no detectable organic solvents. It was concluded that groundwater contamination was occurring downgradient of the airport as a result of onsite source(s) at the airport.

On April 1989, the San Bernardino County Department of Environmental Health Services (SBCDEHS) submitted a proposed workplan for conducting an investigation to identify potential sources of groundwater contamination at the airport.

A report titled "Preliminary Report on Generators of PCE and TCE at the Chino Airport" was submitted on July 1989. The report found 24 USTs at the airport, 11 of which were in use at the time for fuel and waste oil. Only 2 of the tanks had secondary containment. The rest were assumed to be single-walled steel USTs. A number of violations of laws and regulations governing the management of the USTs, hazardous wastes, and hazardous materials at airport facilities were identified. It was concluded that the groundwater contamination in the area appeared to be the result of industrial waste disposal practices at the airport.

In February 1990, SBCDEHS submitted a prioritized list of sites where TCE may be discharged along with a time schedule for implementation of the investigation of these sites.

In October 1990, the RWQCB issued a Cleanup and Abatement Order.

Between 1991 and 1992, 310 containers of hazardous waste were disposed and the soil was characterized onsite. A total of 81 borings were drilled during two phases of soil characterization. Soil samples, borehole vapor samples, soil gas samples, and sludge samples were collected and analyzed. Although elevated concentrations of acetone, methylene chloride, carbon tetrachloride, dichloroethane, and low-level concentrations of TCE were detected in some of these samples, no obvious sources of the TCE/PCE groundwater contamination were identified.

According to the Draft Groundwater Assessment Report dated October 2003, the results for the 11 private production wells indicated concentrations of TCE up to 44 ppb, with the assumed groundwater flow direction to be south-southwest.

CAMW2 is a groundwater monitoring well located at the intersection of Merrill Avenue and Grove Avenue, which is the closest well to the Site. The CAMW2 sample from the

October 2003 assessment reported non-detect results for chloroform, cis-1,2-dichloroethene, 1,1,2-trichloroethane, and TCE. CAMW2 did have elevated levels of nitrate, likely due to agricultural and dairy operations immediately upgradient of the airport. According to a letter from Tetra Tech dated June 2009, Additional Plume Characterization and Well Installation Work Plan, CAMW2 was not included in the TCE plume that was characterized for the groundwater for the site. According to the Groundwater Well Installation and Aquifer Pumping Test Work Plan Chino Airport dated July 2017, CAMW2 also had results less than the laboratory's limit of detection for 1,2,3-trichloropropane (TCP).

As of May 2017, the case is still open for ongoing remediation. The northern limits of the plume have been identified and are near the northern border of the airport, but the plume does not extend north to the Site. A map showing the plume is provided in Appendix D.

Based on the contaminant plume not affecting the Site and the southern direction of groundwater flow, this case is not considered a REC to the Site.

### **5.1.3 Division of Oil, Gas, and Geothermal Resources (DOGGR)**

Group Delta reviewed mapping available on the DOGGR website for oil and gas wells on or in the vicinity of the Project. The mapping did not include any oil and gas wells on, or within 1500 feet of the Site. No RECs were identified as a result of the DOGGR database review.

### **5.1.4 Office of California State Fire Marshall**

Group Delta reviewed available files through the online National Pipeline Mapping System (NPMS) database maintained by the Office of California State Fire Marshal. NPMS is a Geographic Information System (GIS) database of pipeline information for the specific intent of emergency response. The database does not include natural gas lines or liquefied natural gas facilities.

No pipelines were mapped on or within 1500 feet of the Site. No RECs were identified as a result of the NPMS database review.

## **5.2 Local Department Records**

### **5.2.1 San Bernardino Fire Department**

Group Delta requested records associated with the Site from the SBFD on April 3, 2018 and reviewed records associated with the Site on April 18, 2018.

According to letter from SBFD, three 1,000-gallon USTs were removed in March 1998 by Specktrum Engineering. One UST contained diesel and two contained gasoline. Benzene, toluene, ethylbenzene, xylenes, Total Extractable Petroleum Hydrocarbons (TEPH) – Diesel, Total Volatile

Petroleum Hydrocarbons (TVPH) – Gasoline, and Methyl tert-butyl ether (MTBE) were sampled in the soils. Below is a table summarizing the sample results:

Lab ID	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	TEPH – Diesel (ug/kg)	TVPH – Gasoline (ug/kg)	MTBE (ug/kg)
-1	8.0	88	30	260	ND	1100	44
-2	ND	120	1800	5100	ND	2800	28
-3	ND	ND	ND	ND	ND	350	ND
-4	ND	ND	ND	ND	ND	ND	ND
-5	ND	140	900	5100	3800	74000	ND

ug/kg = micrograms per kilogram

ND=Non-detect

No descriptions of the locations of soil samples were included in the documentation provided. A map indicated that the former USTs were located in the northern mid-portion of the Site. The map is provided as Appendix D.

At the time of the sampling, a strong odor at the north end of the diesel tank was noted.

The letter also stated that confirmation sample results from the removal of the USTs indicated that contaminant concentrations remaining in soil within the excavation were below those which are considered a problem and further investigation was deemed not warranted at the time by SBFDD.

Due to the sampling results and regulatory status of the case, this listing is not considered a REC.

In addition, a 2016 Certified Unified Program Agencies (CUPA) compliance inspection report dated December 2016 listed a hazardous materials waste inventory. The inventory included the following: two 55-gallon drums of bleach, two 55-gallon drums of Nu-Dyne 252 Teat Dip, two 55-gallon drums of Nu-Dyne 110 Teat Dip, one 300-gallon container of used oil, one 55-gallon drum of drained used oil filters, one 55-gallon drum of transmission fluid, one 55-gallon drum of hydraulic oil, one 55-gallon drum of motor oil, one 240-gallon AST (empty, previously held gasoline), one 1000-gallon AST split vault of diesel, one 1000-gallon AST split vault (empty, previously held gasoline), two 121-ft<sup>3</sup> cylinders of acetylene, and two 125-ft<sup>3</sup> cylinders of oxygen.

### 5.2.2 South Coast Air Quality Management District (SCAQMD)

Group Delta performed a search on SCAQMD’s Facility Information Detail (FIND) database.

The Site has permits to operate equipment associated with fuel and storage and dairy that are currently active. The Site also have inactive permits associated with equipment including AGOPS IC ENGINE (50-500 HP) and AGOPS EMERGENCY ICE (50-500 HP). No notices of violation or notices to comply were recorded.

The Site produced the following annual emissions:

- Particulate matter, volatile organic compounds, and benzene in the air recorded from 2014 to 2017.
- Reactive organic gases (ROG) and total suspended particulates (TSP) recorded from 2005 to 2014.
- Ammonia recorded from 2005 to 2017.

## **6.0 SITE RECONNAISSANCE**

### **6.1 Methodology and Limiting Conditions**

A Site reconnaissance was performed on October 4, 2018 by Elaine Horng of Group Delta. The Site was observed by traversing paved roads trails by foot while noting evidence of environmental conditions. The Site was accessed from the northern mid-portion of the Site via Eucalyptus Avenue, western mid-portion of the Site via Bon View Avenue, and the eastern mid-portion of the Site via Grove Avenue.

The purpose of the Site reconnaissance was to observe the present Site use and conditions as they relate to the possible presence of potentially hazardous substances and petroleum products. In addition, adjoining properties and roads were visually observed from the Site to identify land uses and the potential presence of structures, operations, activities, or environmental conditions that may involve the use, treatment, storage, disposal, or generation of hazardous wastes and/or petroleum products that may pose an environmental concern to the Site. Photographic documentation of the reconnaissance is included in Appendix B.

### **6.2 General Site Setting**

The Site is a 130.34-acre property and consists of pasture land on the western portion, dairy farms on the eastern portion, and residential housing amongst the pasture and dairy farms. The Site had been used as a dairy farm and for single-family residences since approximately 1963. The Site is mainly dirt and grass, with paved concrete, and several single-family residences.

The main residential house is on the northern mid-portion of the Site and has a main office. It is also attached to one of the dairy farms. Four residential houses are on the northwest corner of the Site, another residential house is on the northeast corner of the Site, and the last residential house is on the southeast corner of the Site. All residences are occupied by workers for the dairy farm.

### **6.3 Adjacent Properties Site Observations**

The properties adjacent to the Site were observed from the Site to assess if they had potential to present RECs for the Site.

Dairy farms are located on the north-adjacent, west-adjacent, east-adjacent, and southeast-adjacent properties to the Site. Chino Airport is located on the south and southwest-adjacent property to the Site. The adjacent properties were viewed from the streets that border the Site. Based on this observation, the properties adjacent to the Site were well-maintained and did not appear to be of environmental concern.

### **6.4 Site Visit Findings**

The following observations were made during the Site reconnaissance:

- There were approximately 3 onsite water wells for the potable water supply.
- Used tractor oil is also stored onsite.
- One 2,000-gallon AST was observed on the northern mid-portion of the Site. The AST is split into separate 1,000 gallons sections, one for diesel fuel and the other for gasoline. A 240-gallon AST next to the 2,000-gallon AST is used for gasoline storage. The 2,000-gallon AST is secured on concrete with a secondary containment. The 240-gallon AST appeared to be on concrete with no secondary containment. No staining was observed during Site reconnaissance.
- A pond system was observed in the southwestern portion of the site for manure water from the dairy farm. The pond appeared dry at the time of the Site reconnaissance.
- Within the dairy farms, there were several 55-gallon drums that are used to store chlorine, acid, and soap water for pipe cleaning.
- Pipes ran throughout the farm and were generally used to clean the cows during dairy activities.
- There was at least one septic system onsite.

No evidence of RECs was observed during the Site reconnaissance.

## **7.0 SIGNIFICANT DATA GAPS**

### **7.1 Data Gaps**

In general, a Data Gap is the inability to gather information as prescribed in the ASTM Standard Practice despite good faith efforts. This may include, but not be limited to, a lack of historical information, inability to interview knowledgeable individuals, or inspect portions of the Site.

No data gaps were encountered during this assessment.

### **7.2 Data Failures**

The objective of reviewing historical information is to identify all obvious uses of the Site from first developed use or 1940, whichever is earlier, in order to identify the likelihood of previous uses resulting in a recognized environmental condition(s). Generally, a Data Failure is when all obvious uses of the site cannot be determined despite gathering and reviewing all of the standard historical sources that are reasonably ascertainable. A historical source is considered reasonably ascertainable if it is (1) publicly available, (2) obtainable within a reasonable period of time and at a reasonable cost, and (3) practically reviewable.

The Site uses were identified back to 1901. Therefore, data failure was not encountered during the course of this assessment.

## 8.0 FINDINGS AND CONCLUSIONS

Group Delta has performed a Phase I ESA for REDA Aquisitions for a 130.34-acre Site located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue, in the City of Ontario, San Bernardino County, California (Figure 1). The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; 1054-231-01, -02.

The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use. No RECs were identified during this assessment, the following potential environmental concern was identified:

- The former agricultural land use of the Site, beginning prior to 1938 and continuing to approximately 2005 is considered an environmental concern. This land use presents potential for residual organochlorine pesticides and arsenic commonly used on agricultural land during the dates the Site was used for agriculture. These pesticides may persist in shallow soil on the Site.

The following are noteworthy considerations for the Site:

- Various hazardous materials are stored and used on the Site. In addition, per the interview with Ms. Gourdikian, used tractor oil is stored in a small tank next to the northwestern storage building adjacent to the chicken coop.
- Dairy farming on the Site presents the potential for elevated methane in soil-gas on the Site.
- Numerous structures onsite may contain hazardous building materials including asbestos and lead-based paint.
- There are a 2,000-gallon and 240-gallon AST on the Site. The 240-gallon AST was on concrete but did not have secondary containment.
- One or more septic systems are present on the Site.
- There are at least three water production wells on the Site.
- Three 1,000-gallon USTs were removed in March 1998. One UST contained diesel and two contained gasoline. The documentation provided by SBFDD was sparse; however, residual concentrations detected in soil were considered low and the UST removal received case closure.



## 9.0 OPINIONS

We have performed a Phase I ESA of the subject Site in accordance with the scope of work and limitations of ASTM E1527-13. The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use. This assessment has revealed no evidence of RECs at the Site. Based upon the findings and conclusions, Group Delta is providing the following opinions:

- A limited soil screening is recommended to assess for the presence of residual organochlorine pesticides and arsenic in the Site's soil.
- Hazardous materials and waste should be removed from the Site by the current owners prior to redevelopment in accordance with the Hazardous Materials Business Plan and under oversight from the CUPA (i.e., Sbfd).
- The City of Ontario may require a soil-gas survey or mitigation measures for methane prior to development.
- A hazardous materials survey should be conducted on the Site's structures prior to demolition.
- The ASTs on the Site should be removed and receive closure from appropriate regulatory agencies.
- The Sbfd issued case closure for three USTs removed from the Site in the late 1998. As a conservative measure, a limited Phase II site investigation could be considered for the area of the former USTs. At a minimum, earthwork in the vicinity of the former USTs should be monitored for indications of residual contamination.

## 10.0 DEVIATIONS

There were no deviations to the ASTM Standard Practice associated with the preparation and development of this Phase I ESA.

## 11.0 REFERENCES

California Department of Toxic Substances Control, EnviroStor Database, March 30, 2018  
[www.envirostor.dtsc.ca.gov](http://www.envirostor.dtsc.ca.gov).

Department of Transportation, National Pipeline Mapping System, March 30, 2018  
<https://www.npms.phmsa.dot.gov/PublicViewer/>,

Environmental Data Resources, Inc., The EDR Radius Map Report with GeoCheck dated October 1, 2018

Environmental Data Resources, Inc., Certified Sanborn Map Report dated March 14, 2018

Environmental Data Resources, Inc., Historical Topographic Map Report dated March 14, 2018

Environmental Data Resources, Inc., The EDR-City Directory Image Report dated March 14, 2018

Environmental Data Resources, Inc. Aerial Photo Decade Package dated March 15, 2018

Bibeau, John, Owner Representative, Personal Communication, October 2018

Gourdikian, Linda, Co-owner, Personal Communication, April 9, 2018

Borba, George, Co-owner, Personal Communication, April 10, 2018

Google Maps, <http://maps.google.com>

Office of California State Fire Marshal, March 30, 2018  
[http://osfm.fire.ca.gov/pipeline/pipeline\\_mapping.php](http://osfm.fire.ca.gov/pipeline/pipeline_mapping.php).

State of California, Division of Oil, Gas, and Geothermal Resources, March 30, 2018  
<http://www.conservation.ca.gov/dog/Pages/wellfinder.aspx>

State Water Resources Control Board, GeoTracker Database, March 30, 2018  
<http://geotracker.waterboards.ca.gov/>.

***FIGURES***

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**APPENDIX A**  
**PRELIMINARY TITLE REPORT**

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**APPENDIX B**  
**SITE PHOTOGRAPHS**

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**APPENDIX C**

**ENVIRONMENTAL DATA RESOURCES, INC. REPORT  
(RADIUS SEARCH MAP, SANBORN MAPS, AERIAL PHOTOGRAPHS,  
TOPOGRAPHIC MAPS, & CITY DIRECTORIES)**

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***APPENDIX D***

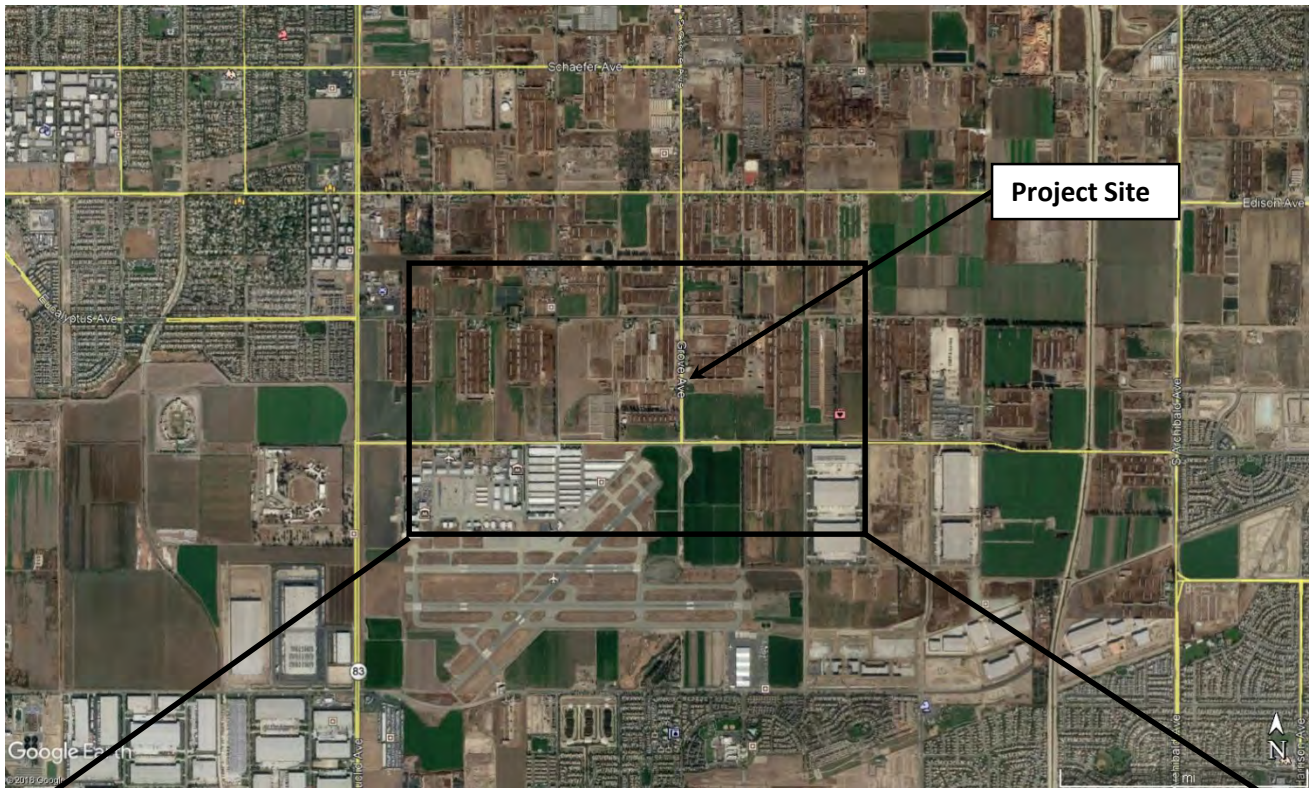
***REGULATORY DATABASE REVIEW MAPS***

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***FIGURES***

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Reference: Google Earth



GDC Project No. EN381

**Project Location Map**

Phase I Environmental Site Assessment  
George Borba Site  
Ontario, CA

**Figure 1**

**APPENDIX A**  
**PRELIMINARY TITLE REPORT**

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Issuing Policies of Chicago Title Insurance Company

ORDER NO.: 00079574-996-SD1-CF2

Escrow/Customer Phone: (619) 521-3500

CBRE  
 4141 Inland Empire Blvd., #100  
 Ontario, CA 91764  
 ATTN: John R. Bibeau  
 Email: john.bibeau@cbre.com  
 Ref: Chino Property

Title Officer: **Ken Cyr & Mark Franklin**  
 Title Officer Phone: (619) 521-3673  
 Title Officer Fax: (619) 521-3608  
 Title Officer Email: **TeamCyrFranklin@ctt.com**

PROPERTY: VACANT LAND, ONTARIO, CA

**FIRST AMENDED PRELIMINARY REPORT**

*In response to the application for a policy of title insurance referenced herein, Chicago Title Company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

*The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.*


*This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.*

*The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Florida corporation.*

***Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.***

***It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.***

Chicago Title Company

By:   
 Authorized Signature



By:   
 Nancy Quirk, President  
 Attest:   
 Michael Gravelle, Secretary

## PRELIMINARY REPORT

**EFFECTIVE DATE:** September 28, 2017 at 7:30 a.m.

**ORDER NO.:** 00079574-996-SD1-CF2

The form of policy or policies of title insurance contemplated by this report is:

**CLTA Standard Coverage Owners Policy (04-08-14)**

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

**A FEE**

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

**POCAMO, LLC, a California limited liability company, as to lots 1-4, 13-16, 19, 20, 29 and 30, subject to item no. 10 and requirement no's. 2, 3 and 4 herein and**

**GEORGE BORBA, JR., a single man as to an undivided ½ interest;**

**GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the George Borba Family Trust, dated April 12, 1990, (Restated), as to an undivided 25% interest;**

**GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the Survivor's Trust created under the George Borba Family Trust, dated April 12, 1990, as amended, as to 25% of an undivided ½ interest;**

**GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the Marital Trust created under the George Borba Family Trust, dated April 12, 1990, as amended, as to 25% of an undivided ½ interest as to Lots 17 and 18, subject to requirement no's. 2, 3 and 4 herein.**

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

**See Exhibit A attached hereto and made a part hereof.**

**EXHIBIT "A"**

**LEGAL DESCRIPTION**

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ONTARIO, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT(S) 1, 2, 3, 4, 13, 14, 15, 16, 17, 18, 19, 20, 29 AND 30 OF SECTION 20, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ALL ACCORDING TO MAP OF SUBDIVISION OF PART OF RANCHO SANTA ANA DEL CHINO, IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER PLAT RECORDED IN [BOOK 6 OF MAPS, PAGE 15](#) OF RECORDS OF SAID COUNTY

## EXCEPTIONS

### AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:

- A. Property taxes, which are a lien due and payable, including any assessments collected with taxes to be levied for the fiscal year 2017-2018.

[Amounts hyperlinked here.](#)

- B. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

1. Water rights, claims or title to water, whether or not disclosed by the public records.
2. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the [map of said tract/plat](#):

Purpose: Streets, highways and utilities  
Affects: All lots as shown on said map

3. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document:

Reserved by: Chino Land and Water Company  
Purpose: Pipes and aqueducts, railroads and tramways and incidental purposes  
Recording Date: April 2, 1908  
Recording No: [Book 401, page 54 of Deeds](#)  
Affects: The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

4. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Southern California Edison Company  
Purpose: Poles, wires, cross-arms and incidental purposes  
Recording Date: March 1, 1911  
Recording No: [Book 472, page 141 of Deeds](#)  
Affects: Lots 1 and 2

5. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Southern California Edison Company  
Purpose: Pole, cross-arms and incidental purposes  
Recording Date: December 11, 1913  
Recording No: [Book 562, page 237 of Deeds](#)  
Affects: Lots 3 and 4

**EXCEPTIONS**  
**(Continued)**

6. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by: Chino Land and Water Company  
Purpose: Pipes and aqueducts, railroads and tramways and incidental purposes  
Recording Date: April 17, 1920  
Recording No: [Book 678, page 301 of Deeds](#)  
Affects: Lots 3, 4, 13 and 14

The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

7. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by: Chino Land and Water Company  
Purpose: Pipes and aqueducts, railroads and tramways and incidental purposes  
Recording Date: November 9, 1920  
Recording No: [Book 702, page 46 of Deeds](#)  
Affects: Lots 19, 20, 29 and 30

The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

- 7A. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: the County of San Bernardino  
Purpose: public highway  
Recording Date: April 19, 1979  
Recording No: [1142](#)  
Affects: Lots 1 and 16

8. Matters contained in that certain document

Entitled: Notice of Merger  
Recording Date: February 16, 1988  
Recording No: [88-046974 of Official Records](#)

Reference is hereby made to said document for full particulars.

Affects: Lots 3 and 4

9. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Southern California Edison Company  
Purpose: utilities  
Recording Date: March 17, 1994  
Recording No: [94-0131212 of Official Records](#)  
Affects: Lots 17 and 18 as described therein



**EXCEPTIONS  
(Continued)**

10. The effect of a Deed as set forth below:

Grantor: George A. Borba, Jr. and Linda Borba Gourdikian, Trustees of the Survivor's Trust created under the George Borba Family Trust dated April 12, 1990, as amended, as to an undivided 50% interest; and  
George A. Borba, Jr. and Linda Borba Gourdikian, Trustees of the Martial Trust created under the George Borba Family Trust dated April 12, 1990, as amended, as to an undivided 50% interest

Grantee: Pocamo LLC, a California limited liability company

Dated: December 31, 2015

Recording Date: June 16, 2016

Recording No.: [2016-0237281 of Official Records](#)

The Company requires that an affidavit (attached) be completed and executed by the above grantor and that said affidavit be acknowledged before a notary who is an employee of the title or escrow Company and then submitted to the Title Officer for review.

The Company further requires a statement of information from the above grantors in order to complete this report, based on the effect of documents, proceedings, liens, decrees, or other matters which do not specifically describe said Land, but which if any do exist, may affect the title or impose liens or encumbrances thereon.

Affects: Lots 1-4, 13-16, 19, 20, 29 and 30

11. Please be advised that our search did not disclose any open Deeds of Trust of record. If you should have knowledge of any outstanding obligation, please contact the Title Department immediately for further review prior to closing.
12. Matters which may be disclosed by an inspection and/or by a correct ALTA/NSPS Land Title Survey of said Land that is satisfactory to the Company, and/or by inquiry of the parties in possession thereof.
13. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

**PLEASE REFER TO THE "INFORMATIONAL NOTES" AND "REQUIREMENTS" SECTIONS WHICH FOLLOW FOR INFORMATION NECESSARY TO COMPLETE THIS TRANSACTION.**

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**END OF EXCEPTIONS**

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## REQUIREMENTS SECTION

1. Unrecorded matters which may be disclosed by an Owner's Affidavit or Declaration. A form of the Owner's Affidavit/Declaration is attached to this Preliminary Report/Commitment. This Affidavit/Declaration is to be completed by the record owner of the land and submitted for review prior to the closing of this transaction. Your prompt attention to this requirement will help avoid delays in the closing of this transaction. Thank you.

The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit/Declaration.

2. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

Name of Trust: **The George Borba Family Trust, dated April 12, 1990 (Restated)**

3. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

Name of Trust: **The Survivor's Trust created under the George Borba Family Trust, dated April 12, 1990 (Restated)**

4. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

Name of Trust: **The Marital Trust, created under the George Borba Family Trust, dated April 12, 1990 (Restated)**

**REQUIREMENTS**  
**(Continued)**

5. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

Limited Liability Company: **Pocamo, LLC**

- a) A copy of its operating agreement, if any, and any and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member
- b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps
- c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member
- d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity was created
- e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

The Company reserves the right to add additional items or make further requirements after review of the requested documentation.

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**END OF REQUIREMENTS**

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## INFORMATIONAL NOTES SECTION

1. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.
2. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

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**END OF INFORMATIONAL NOTES**

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Ken Cyr & Mark Franklin/rp

**FIDELITY NATIONAL FINANCIAL**  
**PRIVACY NOTICE**

At Fidelity National Financial, Inc., we respect and believe it is important to protect the privacy of consumers and our customers. This Privacy Notice explains how we collect, use, and protect any information that we collect from you, when and to whom we disclose such information, and the choices you have about the use of that information. A summary of the Privacy Notice is below, and we encourage you to review the entirety of the Privacy Notice following this summary. You can opt-out of certain disclosures by following our opt-out procedure set forth at the end of this Privacy Notice.

<p><b>Types of Information Collected.</b> You may provide us with certain personal information about you, like your contact information, address demographic information, social security number (SSN), driver's license, passport, other government ID numbers and/or financial information. We may also receive browsing information from your Internet browser, computer and/or mobile device if you visit or use our websites or applications.</p>	<p><b>How Information is Collected.</b> We may collect personal information from you via applications, forms, and correspondence we receive from you and others related to our transactions with you. When you visit our websites from your computer or mobile device, we automatically collect and store certain information available to us through your Internet browser or computer equipment to optimize your website experience.</p>
<p><b>Use of Collected Information.</b> We request and use your personal information to provide products and services to you, to improve our products and services, and to communicate with you about these products and services. We may also share your contact information with our affiliates for marketing purposes.</p>	<p><b>When Information Is Disclosed.</b> We may disclose your information to our affiliates and/or nonaffiliated parties providing services for you or us, to law enforcement agencies or governmental authorities, as required by law, and to parties whose interest in title must be determined.</p>
<p><b>Choices With Your Information.</b> Your decision to submit information to us is entirely up to you. You can opt-out of certain disclosure or use of your information or choose to not provide any personal information to us.</p>	<p><b>Information From Children.</b> We do not knowingly collect information from children who are under the age of 13, and our website is not intended to attract children.</p>
<p><b>Privacy Outside the Website.</b> We are not responsible for the privacy practices of third parties, even if our website links to those parties' websites.</p>	<p><b>International Users.</b> By providing us with your information, you consent to its transfer, processing and storage outside of your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.</p>
<p><b>The California Online Privacy Protection Act.</b> Some FNF companies provide services to mortgage loan servicers and, in some cases, their websites collect information on behalf of mortgage loan servicers. The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through those websites.</p>	
<p><b>Your Consent To This Privacy Notice.</b> By submitting information to us or by using our website, you are accepting and agreeing to the terms of this Privacy Notice.</p>	<p><b>Access and Correction; Contact Us.</b> If you desire to contact us regarding this notice or your information, please contact us at <a href="mailto:privacy@fnf.com">privacy@fnf.com</a> or as directed at the end of this Privacy Notice.</p>

## FIDELITY NATIONAL FINANCIAL, INC. PRIVACY NOTICE

Fidelity National Financial, Inc. and its majority-owned subsidiary companies providing title insurance, real estate- and loan-related services (collectively, "FNF", "our" or "we") respect and are committed to protecting your privacy. We will take reasonable steps to ensure that your Personal Information and Browsing Information will only be used in compliance with this Privacy Notice and applicable laws. This Privacy Notice is only in effect for Personal Information and Browsing Information collected and/or owned by or on behalf of FNF, including Personal Information and Browsing Information collected through any FNF website, online service or application (collectively, the "Website").

### Types of Information Collected

We may collect two types of information from you: Personal Information and Browsing Information.

Personal Information. FNF may collect the following categories of Personal Information:

- contact information (e.g., name, address, phone number, email address);
- demographic information (e.g., date of birth, gender, marital status);
- social security number (SSN), driver's license, passport, and other government ID numbers;
- financial account information; and
- other personal information needed from you to provide title insurance, real estate- and loan-related services to you.

Browsing Information. FNF may collect the following categories of Browsing Information:

- Internet Protocol (or IP) address or device ID/UDID, protocol and sequence information;
- browser language and type;
- domain name system requests;
- browsing history, such as time spent at a domain, time and date of your visit and number of clicks;
- http headers, application client and server banners; and
- operating system and fingerprinting data.

### How Information is Collected

In the course of our business, we may collect *Personal Information* about you from the following sources:

- applications or other forms we receive from you or your authorized representative;
- the correspondence you and others send to us;
- information we receive through the Website;
- information about your transactions with, or services performed by, us, our affiliates or nonaffiliated third parties; and
- information from consumer or other reporting agencies and public records maintained by governmental entities that we obtain directly from those entities, our affiliates or others.

If you visit or use our Website, we may collect *Browsing Information* from you as follows:

- **Browser Log Files.** Our servers automatically log each visitor to the Website and collect and record certain browsing information about each visitor. The Browsing Information includes generic information and reveals nothing personal about the user.
- **Cookies.** When you visit our Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. When you visit a website again, the cookie allows the website to recognize your computer. Cookies may store user preferences and other information. You can choose whether or not to accept cookies by changing your Internet browser settings, which may impair or limit some functionality of the Website.

### Use of Collected Information

Information collected by FNF is used for three main purposes:

- To provide products and services to you or any affiliate or third party who is obtaining services on your behalf or in connection with a transaction involving you.
- To improve our products and services.
- To communicate with you and to inform you about our, our affiliates' and third parties' products and services, jointly or independently.

### When Information Is Disclosed

We may provide your Personal Information (excluding information we receive from consumer or other credit reporting agencies) and Browsing Information to various individuals and companies, as permitted by law, without obtaining your prior authorization. Such laws do not allow consumers to restrict these disclosures. Please see the section "Choices With Your Personal Information" to learn how to limit the discretionary disclosure of your Personal Information and Browsing Information.

Disclosures of your Personal Information may be made to the following categories of affiliates and nonaffiliated third parties:

- to third parties to provide you with services you have requested, and to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to our affiliate financial service providers for their use to market their products or services to you;
- to nonaffiliated third party service providers who provide or perform services on our behalf and use the disclosed information only in connection with such services;
- to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to market financial products or services to you;
- to law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoena or court order;
- to lenders, lien holders, judgment creditors, or other parties claiming an interest in title whose claim or interest must be determined, settled, paid, or released prior to closing; and

- other third parties for whom you have given us written authorization to disclose your Personal Information.

We may disclose Personal Information and/or Browsing Information when required by law or in the good-faith belief that such disclosure is necessary to:

- comply with a legal process or applicable laws;
- enforce this Privacy Notice;
- investigate or respond to claims that any material, document, image, graphic, logo, design, audio, video or any other information provided by you violates the rights of a third party; or
- protect the rights, property or personal safety of FNF, its users or the public.

We maintain reasonable safeguards to keep your Personal Information secure. When we provide Personal Information to our affiliates or third party service providers as discussed in this Privacy Notice, we expect that these parties process such information in compliance with our Privacy Notice or in a manner that is in compliance with applicable privacy laws. The use of your information by a business partner may be subject to that party's own Privacy Notice. Unless permitted by law, we do not disclose information we collect from consumer or credit reporting agencies with our affiliates or others without your consent.

We reserve the right to transfer your Personal Information, Browsing Information, and any other information, in connection with the sale or other disposition of all or part of the FNF business and/or assets, or in the event of our bankruptcy, reorganization, insolvency, receivership or an assignment for the benefit of creditors. You expressly agree and consent to the use and/or transfer of the foregoing information in connection with any of the above described proceedings. We cannot and will not be responsible for any breach of security by a third party or for any actions of any third party that receives any of the information that is disclosed to us.

### **Choices With Your Information**

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you. The uses of your Personal Information and/or Browsing Information that, by law, you cannot limit, include:

- for our everyday business purposes – to process your transactions, maintain your account(s), to respond to law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court orders, or report to credit bureaus;
- for our own marketing purposes;
- for joint marketing with financial companies; and
- for our affiliates' everyday business purposes – information about your transactions and experiences.

You may choose to prevent FNF from disclosing or using your Personal Information and/or Browsing Information under the following circumstances ("opt-out"):

- for our affiliates' everyday business purposes – information about your creditworthiness; and
- for our affiliates to market to you.

To the extent permitted above, you may opt-out of disclosure or use of your Personal Information and Browsing Information by notifying us by one of the methods at the end of this Privacy Notice. We do not share your personal information with non-affiliates for their direct marketing purposes.

For California Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties, except as permitted by California law. Currently, our policy is that we do not recognize "do not track" requests from Internet browsers and similar devices.

For Nevada Residents: You may be placed on our internal Do Not Call List by calling (888) 934-3354 or by contacting us via the information set forth at the end of this Privacy Notice. Nevada law requires that we also provide you with the following contact information: Bureau of Consumer Protection, Office of the Nevada Attorney General, 555 E. Washington St., Suite 3900, Las Vegas, NV 89101; Phone number: (702) 486-3132; email: BCPINFO@ag.state.nv.us.

For Oregon Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties, except as permitted by Vermont law, such as to process your transactions or to maintain your account. In addition, we will not share information about your creditworthiness with our affiliates except with your authorization. For joint marketing in Vermont, we will only disclose your name, contact information and information about your transactions.

### **Information From Children**

The Website is meant for adults and is not intended or designed to attract children under the age of thirteen (13). We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian. By using the Website, you affirm that you are over the age of 13 and will abide by the terms of this Privacy Notice.

### **Privacy Outside the Website**

The Website may contain links to other websites. FNF is not and cannot be responsible for the privacy practices or the content of any of those other websites.

### **International Users**

FNF's headquarters is located within the United States. If you reside outside the United States or are a citizen of the European Union, please note that we may transfer your Personal Information and/or Browsing Information outside of your country of residence or the European Union for any of the purposes described in this Privacy Notice. By providing FNF with your Personal Information and/or Browsing Information, you consent to our collection and transfer of such information in accordance with this Privacy Notice.

### **The California Online Privacy Protection Act**

FNF Privacy Statement (Eff. 5/1/2015) Last Updated March 1, 2017  
MISC0219 (DSI Rev. 3/2/17)

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Page 3 Order No. 00079574-996-SD1-CF2

For some FNF websites, such as the Customer CareNet ("CCN"), FNF is acting as a third party service provider to a mortgage loan servicer. In those instances, we may collect certain information on behalf of that mortgage loan servicer via the website. The information which we may collect on behalf of the mortgage loan servicer is as follows:

- first and last name;
- property address;
- user name and password;
- loan number;
- social security number - masked upon entry;
- email address;
- three security questions and answers; and
- IP address.

The information you submit through the website is then transferred to your mortgage loan servicer by way of CCN. **The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through this website. For example, if you believe that your payment or user information is incorrect, you must contact your mortgage loan servicer.**

CCN does not share consumer information with third parties, other than (1) those with which the mortgage loan servicer has contracted to interface with the CCN application, or (2) law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court orders. All sections of this Privacy Notice apply to your interaction with CCN, except for the sections titled "Choices with Your Information" and "Access and Correction." If you have questions regarding the choices you have with regard to your personal information or how to access or correct your personal information, you should contact your mortgage loan servicer.

#### **Your Consent To This Privacy Notice**

By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information by us in compliance with this Privacy Notice. Amendments to the Privacy Notice will be posted on the Website. Each time you provide information to us, or we receive information about you, following any amendment of this Privacy Notice will signify your assent to and acceptance of its revised terms for all previously collected information and information collected from you in the future. We may use comments, information or feedback that you submit to us in any manner that we may choose without notice or compensation to you.

#### **Accessing and Correcting Information; Contact Us**

If you have questions, would like to access or correct your Personal Information, or want to opt-out of information sharing with our affiliates for their marketing purposes, please send your requests to [privacy@fnf.com](mailto:privacy@fnf.com) or by mail or phone to:

Fidelity National Financial, Inc.  
601 Riverside Avenue  
Jacksonville, Florida 32204  
Attn: Chief Privacy Officer  
(888) 934-3354



## Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

### **FNF Underwritten Title Company**

CTC - Chicago Title Company

### **FNF Underwriter**

CTIC - Chicago Title Insurance Company

### **Available Discounts**

#### **CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)**

Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge within the following time period from the date of the report.

#### **DISASTER LOANS (CTIC)**

The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

#### **CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)**

On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

#### **EMPLOYEE RATE (CTC and CTIC)**

No charge shall be made to employees (including employees on approved retirement) of the Company or its underwritten, subsidiary title companies for policies or escrow services in connection with financing, refinancing, sale or purchase of the employees' bona fide home property. Waiver of such charges is authorized only in connection with those costs which the employee would be obligated to pay, by established custom, as a party to the transaction.

**ATTACHMENT ONE**

**CALIFORNIA LAND TITLE ASSOCIATION  
STANDARD COVERAGE POLICY – 1990**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
  - (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
  - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
  - (c) resulting in no loss or damage to the insured claimant;
  - (d) attaching or created subsequent to Date of Policy; or
  - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

**EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.  
Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

**CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)  
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE**

**EXCLUSIONS**

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
  - a. building;
  - b. zoning;
  - c. land use;
  - d. improvements on the Land;
  - e. land division; and
  - f. environmental protection.This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
  - a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
  - b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;

- c. that result in no loss to You; or
  - d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
  6. Lack of a right:
    - a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
    - b. in streets, alleys, or waterways that touch the Land.
 This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
  7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
  8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
  9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

**LIMITATIONS ON COVERED RISKS**

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or \$2,500.00 (whichever is less)	\$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or \$5,000.00 (whichever is less)	\$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or \$5,000.00 (whichever is less)	\$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or \$2,500.00 (whichever is less)	\$ 5,000.00

**2006 ALTA LOAN POLICY (06-17-06)**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;
 or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - (a) a fraudulent conveyance or fraudulent transfer, or
  - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

**EXCEPTIONS FROM COVERAGE**

(Except as provided in Schedule B - Part II, (t or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

## (PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

## PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

### 2006 ALTA OWNER'S POLICY (06-17-06)

#### EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
  - (a) a fraudulent conveyance or fraudulent transfer; or
  - (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)

**ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

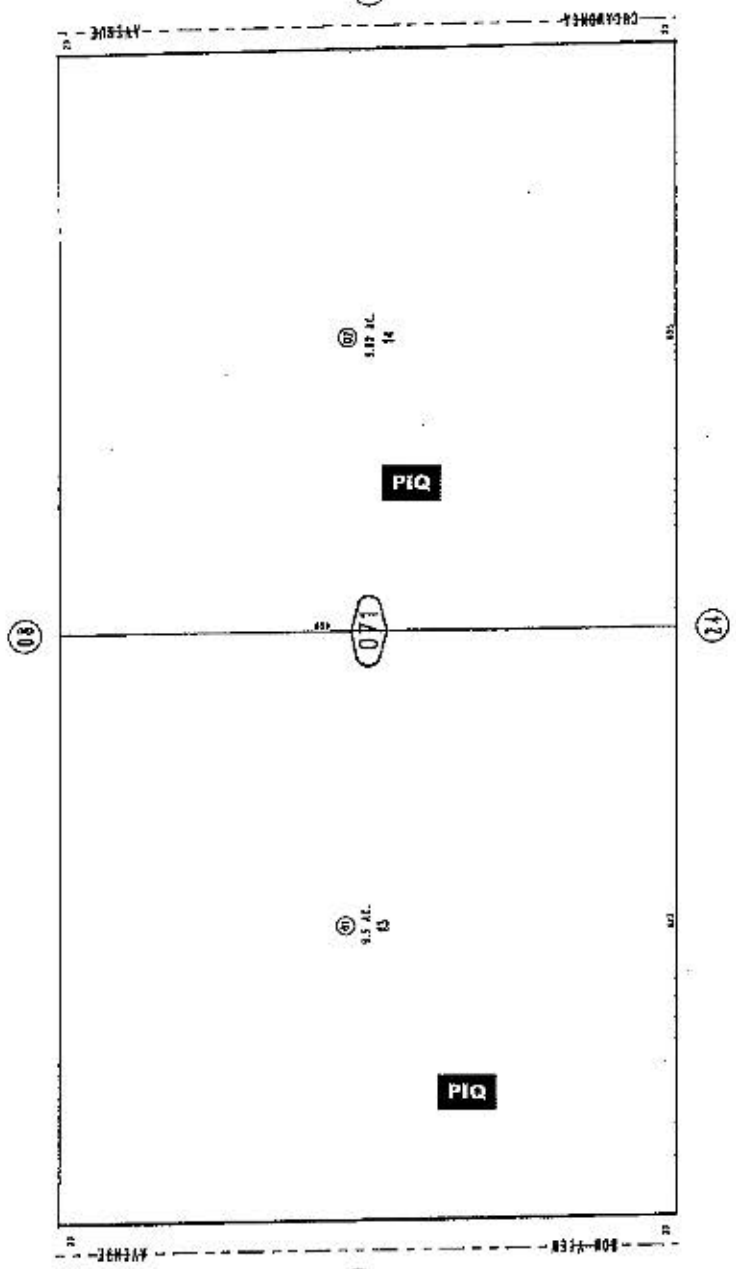
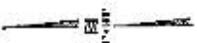
1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - (a) a fraudulent conveyance or fraudulent transfer, or
  - (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

City of Ontario  
Tax Rate Area  
4074

1054 - 07

THIS MAP IS FOR THE PURPOSE  
OF AD VALOREM TAXING DATA



Assessor's Map  
Book 1054 Page 07  
San Bernardino County

Pln. N.E. 1/4, Sec. 20  
T.2S., R.7W.

October 2004

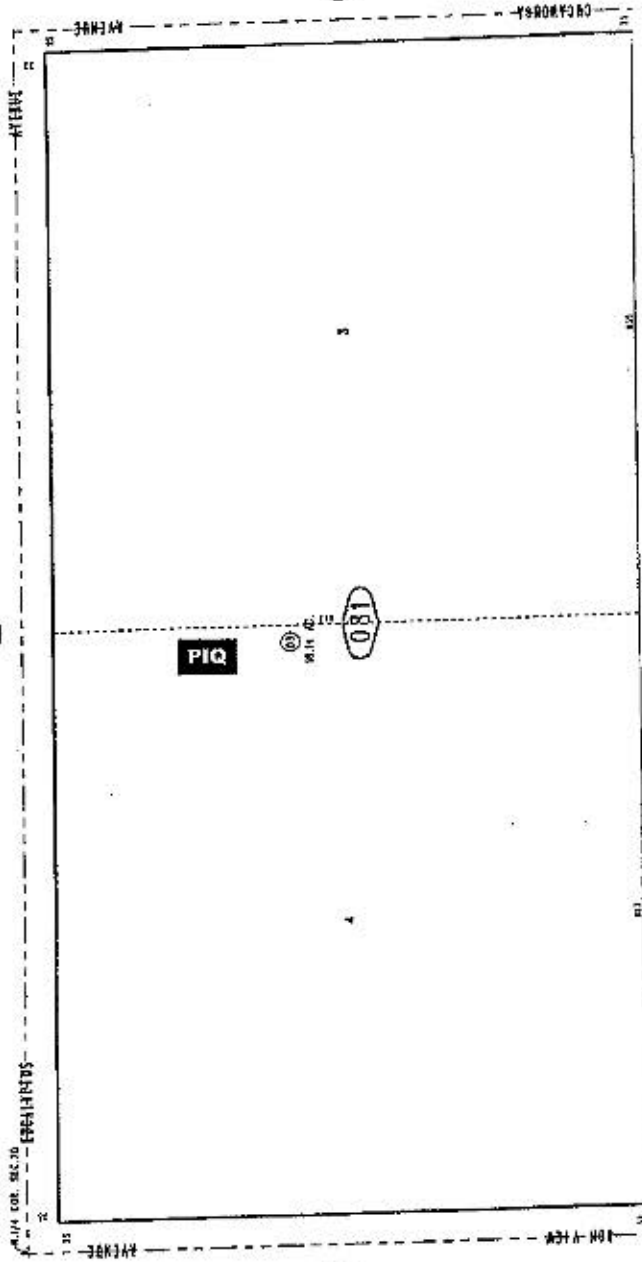
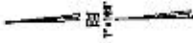
This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

1054-08

City of Ontario  
Tax Rate Area  
4074

Pin. Rancho Santa Ana Del Chino, M.B. 6/15

THIS MAP IS FOR THE PURPOSE  
OF AD VALOREM TAXATION ONLY.



Assessor's Map  
Book 1054 Page 08  
San Bernardino County

Pin. N.E. 1/4, Sec. 20  
T. 25. N. R. 7. W.

October 2004

This map/plot is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Order: 25010449  
Doc: SB:A 1054-8

Pln. Rancho Santa Ana Del Chino, M.B. 6/15

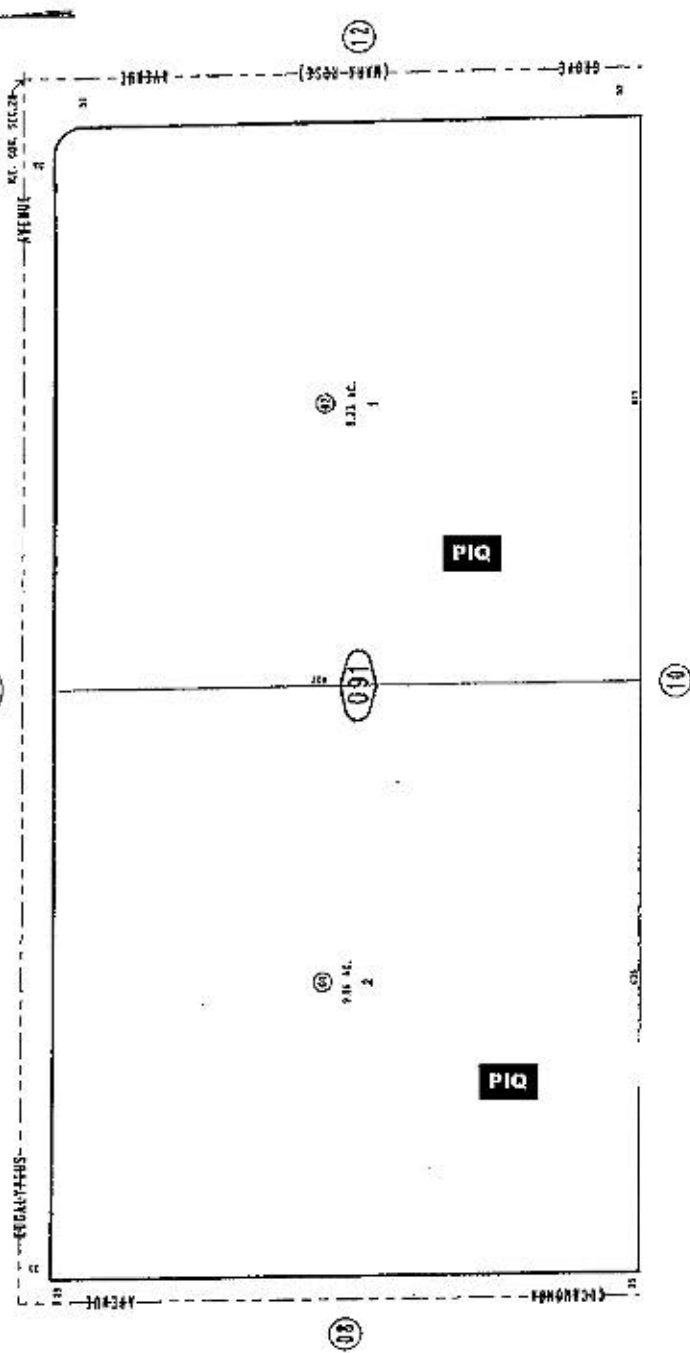
City of Ontario  
Tax Rate Area  
4073

1054-09

THIS MAP IS FOR THE PURPOSE  
OF VALUING TAXATION ONLY.



1953  
56



RECEIVED

Assessor's Map  
Book 1054 Pgs 09  
San Bernardino County

Pln. N.E.1/4, Sec.20.  
T.2S.,R.7W.

October 2004

This map/plot is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

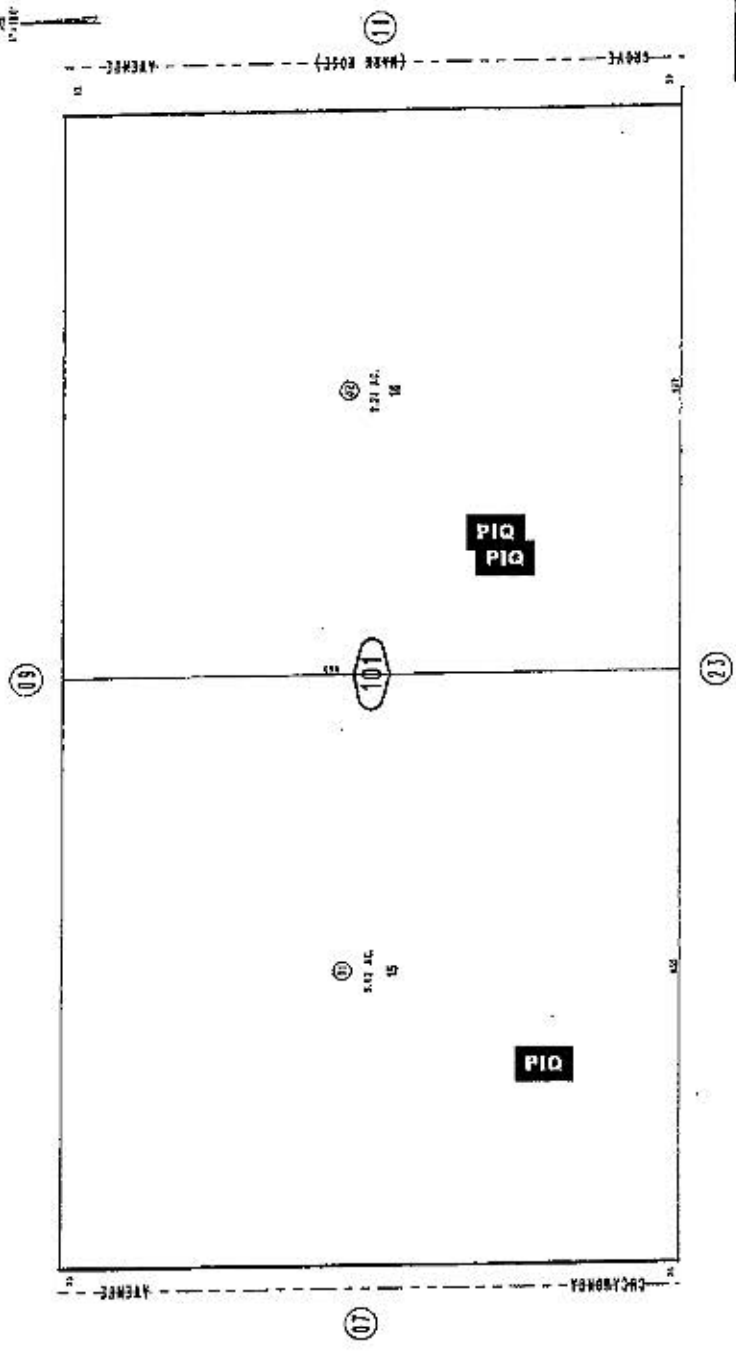
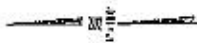


Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

City of Ontario  
Tax Rate Area  
4073

1054-10

THIS MAP IS FOR THE PURPOSE  
OF AN ALTERNATIVE MEASUREMENT ONLY.



Assessor's Map  
Book 1054, Page 10  
San Bernardino County

P1n. N.E.1/4, Sec.20  
T.2S.,R.7W.

October 2004

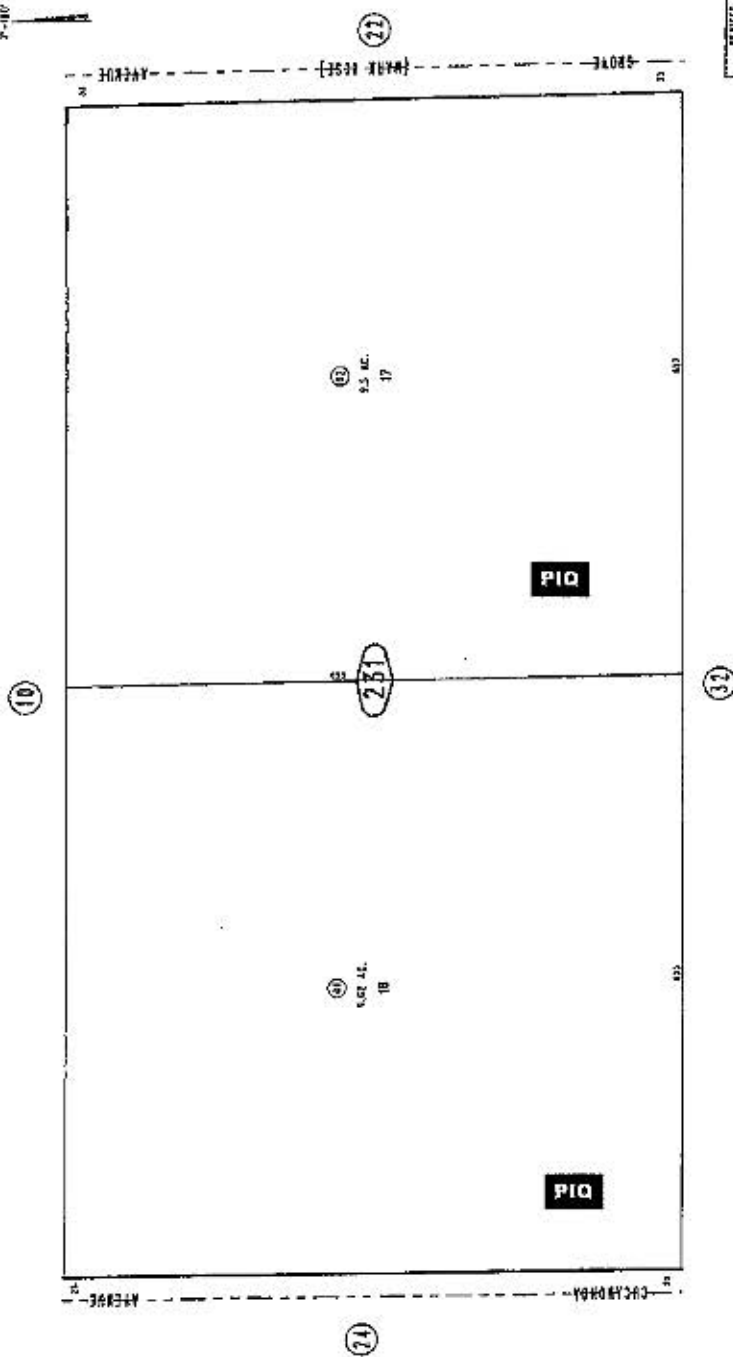
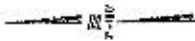
This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

City of Ontario  
Tax Rate Area  
4073

1054 - 23

THIS MAP IS FOR THE PURPOSE  
OF AN ALABAMA TAXATION ONLY.



Assessor's Map  
Book 1054 Page 23  
San Bernardino County

Ptn. S.E. 1/4, Sec. 20  
T. 25, R. 7 W.

October 2014

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

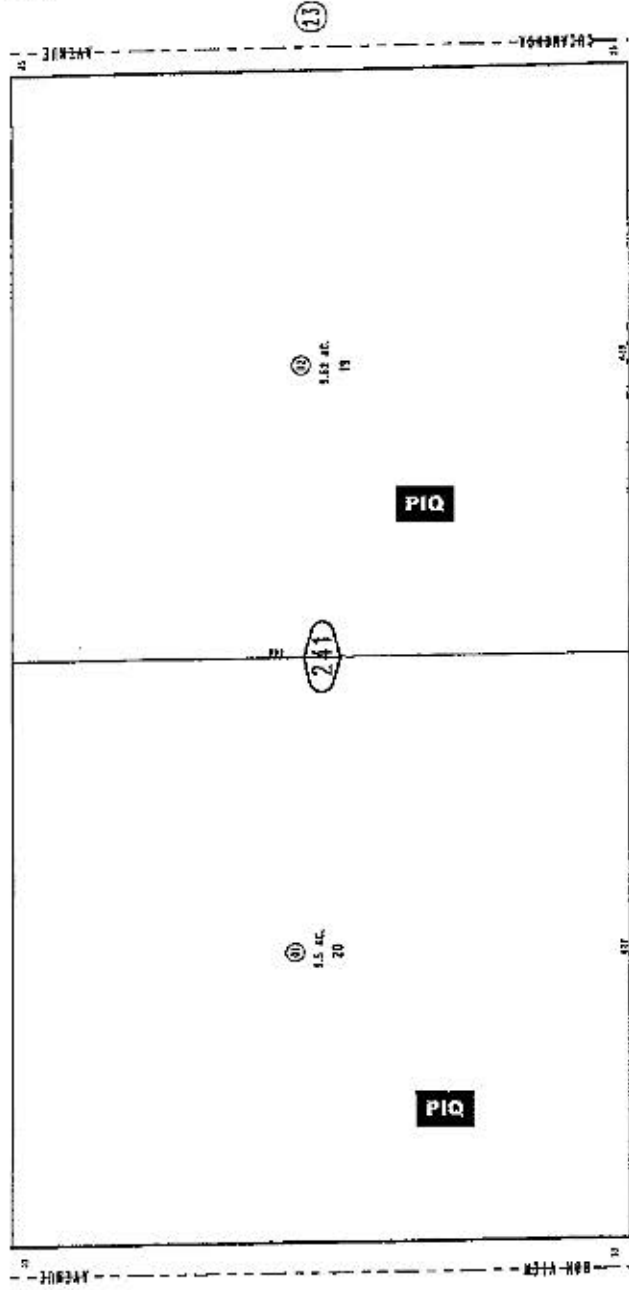
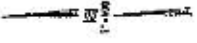


1054-24

City of Ontario  
Tax Rate Area  
4074

Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

THIS MAP IS FOR THE PURPOSE  
OF A RETURN IN A FUTURE YEAR.



Assessor's Map  
Book 1054 Page 24  
San Bernardino County

Ptn. N.E.1/4, Sec.20  
T.2S.,R.7W.

October 2004

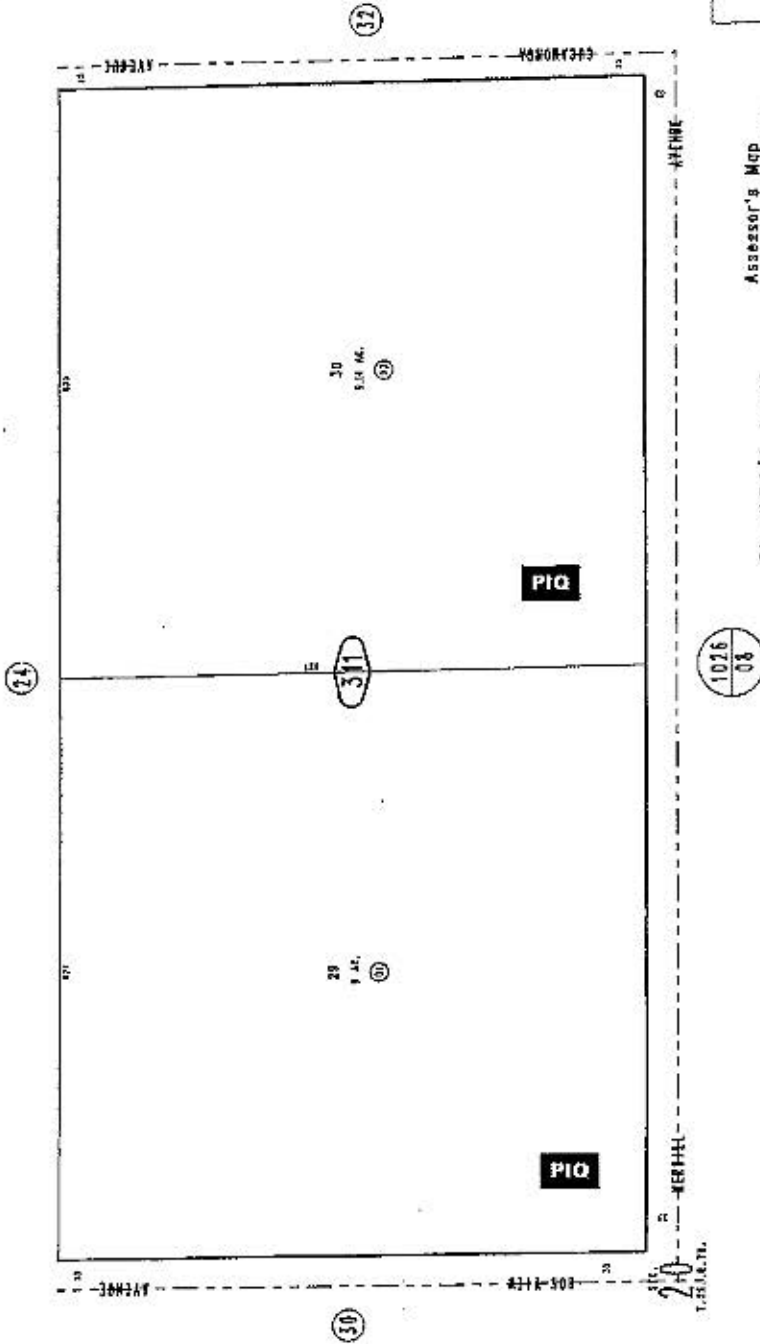
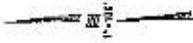
This map/plot is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

1054 - 31

City of Ontario  
Tax Rate Area  
4074

Pln. Rancho Santa Ana Dei Chino, M.B. 6/15

THIS MAP IS FOR THE PURPOSE  
OF A VALUATION MAP ONLY.



Assessor's Map  
Book 1054 Page 31  
San Bernardino County

Pln. N.E. 1/4, Sec. 20  
T. 25S., R. 7W.

October 2604

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Order: 25010949  
Doc: SB:A 1054-31

**APPENDIX B**  
**SITE PHOTOGRAPHS**

---



1. View looking southwest on Site at aboveground storage tank at 7955 Eucalyptus Ave (APN 105-409-101)



2. View looking south at Barn on APN 105-409-102 and APN 105-410-102.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 1



3. View looking southwest at tank used to store old oil from tractors on 7721 Eucalyptus Ave (APN 105-408-103)



4. View looking south at part of dairy farm on APN 105-410-101.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 2





5. View looking northeast on 7955 Eucalyptus Ave (APN 105-409-101) at water storage tank.



6. View on interior looking at dairy equipment and pipes in barn on 7955 Eucalyptus Ave (APN 105-409-101).

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 3



7. View within dairy barn on 7955 Eucalyptus Ave (APN 105-409-101) at 55-gallon drums used to store chlorine, acid, and soap for pipe cleaning.



8. View looking southwest at dairy barn on 7955 Eucalyptus Ave (APN 105-409-101) at grain feeder.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 4



9. View looking west at pasture field (within picture APNs 105-408-103, 105-407-101, 105-407-102)



10. View looking south/southwest at western-adjacent dairy farm (7565 Eucalyptus Ave).

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 5



11. View looking south at Chino Airport located on 7000 Merrill Ave, Chino, CA.



12. View looking north at north-adjacent dairy farm located on 14474 Grove Ave.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 6



13. View looking north from Merrill Ave at pond system for manure water.



14. View looking southeast at house located on 7955 Eucalyptus Ave.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

Project No: EN381

**Group Delta Consultants**

PAGE 7



15. Additional photo of 2,000-gallon AST and 240-gallon AST.



16. View looking south at chicken coop located in the northwestern portion of the Site.

## Property Photographs



REDA  
Environmental Site Assessment  
George Borba Site  
Ontario, CA

**Group Delta Consultants**

Project No: EN381

PAGE 8

**APPENDIX C**

**ENVIRONMENTAL DATA RESOURCES, INC. REPORT  
(RADIUS SEARCH MAP, SANBORN MAPS, AERIAL PHOTOGRAPHS,  
TOPOGRAPHIC MAPS, & CITY DIRECTORIES)**

---

**George Borba Site**

7955 Eucalyptus Ave  
Chino, CA 91710

Inquiry Number: 5440037.2s  
October 01, 2018

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

7955 EUCALYPTUS AVE  
CHINO, CA 91710

#### COORDINATES

Latitude (North): 33.9894490 - 33° 59' 22.01"  
Longitude (West): 117.6312680 - 117° 37' 52.56"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 441694.8  
UTM Y (Meters): 3760971.2  
Elevation: 671 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640938 PRADO DAM, CA  
Version Date: 2012

Northeast Map: 5620426 GUASTI, CA  
Version Date: 2012

Southeast Map: 5640930 CORONA NORTH, CA  
Version Date: 2012

Northwest Map: 5619074 ONTARIO, CA  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140603  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
7955 EUCALYPTUS AVE  
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	GEORGE BORBA & SON D	7955 EUCALYPTUS AVEN	AST, ENF, San Bern. Co. Permit, CIWQS		TP
<a href="#">A2</a>	GEORGE BORBA DAIRY	7955 EUCALYPTUS	CA FID UST		TP
<a href="#">A3</a>	GEORGE BORBA DAIRY	7955 EUCALYPTUS	SWEEPS UST, FINDS, ECHO		TP
<a href="#">A4</a>	GEORGE BORBA	7955 EUCALYPTUS AVE	HIST UST		TP
<a href="#">A5</a>	GEORGE BORBA & SONS	7955 EUCALYPTUS AVE	HAZNET		TP
<a href="#">A6</a>	GEORGE BORBA & SON D	7955 EUCALYPTUS	NPDES, WDS, CIWQS		TP
<a href="#">A7</a>	GEORGE BORBA & SON D	7955 EUCALYPTUS AVE	EMI		TP
<a href="#">B8</a>	AURORA FARMS	14746 GROVE	FINDS	Lower	1 ft.
<a href="#">B9</a>	BOERSMA INC.	14746 GROVE	CIWQS	Lower	1 ft.
<a href="#">B10</a>	AURORA FARMS	14746 GROVE	CIWQS	Lower	1 ft.
<a href="#">B11</a>	BOERSMA INC.	14746 GROVE	FINDS	Lower	1 ft.
<a href="#">B12</a>	HARRY BOERSMA DAIRY	14746 GROVE	San Bern. Co. Permit	Lower	33, 0.006, SE
<a href="#">C13</a>	JOE BORBA DAIRY # 2	14545 S GROVE AVE	San Bern. Co. Permit	Higher	38, 0.007, East
<a href="#">C14</a>	PRIVATE RESIDENCE	PRIVATE RESIDENCE	LUST	Higher	54, 0.010, East
<a href="#">15</a>	HARINGA FARMS	14848 S GROVE AVE	San Bern. Co. Permit	Lower	293, 0.055, SSE
<a href="#">16</a>	O & M DAIRY	14474 GROVE AVE	San Bern. Co. Permit, CIWQS	Higher	397, 0.075, NE
<a href="#">17</a>	AG-COSTA VIEW FARM	14451 BON VIEW	SWEEPS UST, CA FID UST, ENF, CIWQS	Higher	531, 0.101, WNW
<a href="#">18</a>	JOE FERREIRA JR DAIR	14400 S GROVE AVE	San Bern. Co. Permit	Higher	724, 0.137, NE
<a href="#">19</a>	CHINO VALLEY DAIRY #	7565 EUCALYPTUS AVEN	ENF, San Bern. Co. Permit, CIWQS	Lower	1015, 0.192, West
<a href="#">20</a>	ALEWYN DAIRY #3	14361 GROVE	ENF, San Bern. Co. Permit, CIWQS	Higher	1031, 0.195, NE
<a href="#">D21</a>	CAL-AERO FIELD / ACA		ENVIROSTOR	Lower	1156, 0.219, SW
<a href="#">D22</a>	FLITE CRAFTENT	7000 MERRILL	RCRA-SQG	Lower	1185, 0.224, SW
<a href="#">D23</a>	AG-MURRAY, DONALD L.	7000 MERRILL AVE	UST, San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D24</a>	BANNER AIRLINES	7000 MERRILL AVE #19	RCRA-SQG	Lower	1185, 0.224, SW
<a href="#">D25</a>	AERO TRADER	7000 MERRILL AVE HAN	RCRA-SQG	Lower	1185, 0.224, SW
<a href="#">D26</a>	JET CONNECT SERVICES	7000 MERRILL AVE BOX	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D27</a>	YANKS AIR CORPS	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D28</a>	FLITE CRAFTENT	7000 MERRILL	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
<a href="#">D29</a>	SOUTHERN CALIFORNIA	7000 MERRILL AVE	RCRA-LQG	Lower	1185, 0.224, SW
<a href="#">D30</a>	CHINO AIRPORT RADIUM	7000 MERRILL AVE	SEMS, PRP	Lower	1185, 0.224, SW
<a href="#">D31</a>	CHINO AIRPORT	7000 MERRILL AVE	SWEEPS UST, HIST UST	Lower	1185, 0.224, SW
<a href="#">D32</a>	CHINO ROAD YARD	7000 MERRILL AVE	HIST UST	Lower	1185, 0.224, SW
<a href="#">D33</a>	SO CALIF EDISON AIRC	7000 MERRILL AVE HAN	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
<a href="#">D34</a>	BUTTERFIELD AIRPLANE	7000 MERRILL HGR #1	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
<a href="#">D35</a>	UNLIMITED AIRCRAFT I	7000 MERRILL BOX 27	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
<a href="#">D36</a>	CHINO AIRPORT NAPALM	7000 MERRILL AVENUE	SEMS	Lower	1185, 0.224, SW
<a href="#">D37</a>	CHINO ROADYARD	7000 MERRILL AVE	HIST UST	Lower	1185, 0.224, SW
<a href="#">D38</a>	ROGERS AVIATION	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D39</a>	SILVER STATE HELICOP	7000 MERRILL AVE A-2	San Bern. Co. Permit	Lower	1185, 0.224, SW

MAPPED SITES SUMMARY

Target Property Address:  
7955 EUCALYPTUS AVE  
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">D40</a>	SB COUNTY MAINTENANC	7000 MERRILL AVE.	AST	Lower	1185, 0.224, SW
<a href="#">D41</a>	AERO TRADER	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D42</a>	AIRCRAFTSMAN	7000 MERRILL HGR AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D43</a>	VAN'S MOBILE TRUCK S	7000 MERRILL AVE	CPS-SLIC, San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D44</a>	TOM KING AERIAL	7000 MERRILL AVE BOX	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D45</a>	CENTURY AIRCRAFT PAI	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D46</a>	NU VISTA AVIATION	7000 MERRILL AVE BLD	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D47</a>	SBC/CHINO AIRPORT	7000 MERRILL AVE BLD	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D48</a>	CHINO AVIATION	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D49</a>	CHAMPIONSHIP AVIATIO	7000 MERRILL AVE HGR	AST	Lower	1185, 0.224, SW
<a href="#">D50</a>	MILITARY AIRCRAFT RE	7000 MERRILL AVE A48	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D51</a>	SAN BDNO COUNTY/CHIN	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D52</a>	SOUTHERN CALIFORNIA	7000 MERRILL AVE, BO	AST	Lower	1185, 0.224, SW
<a href="#">D53</a>	SQUARE ONE AVIATION	7000 MERRILL AVE BX	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D54</a>	CHINO ROAD YARD	7000 MERRILL AVE	AST, SWEEPS UST, HIST UST, CA FID UST, Cortese,...	Lower	1185, 0.224, SW
<a href="#">D55</a>	ENCORE JET CENTER	7000 MERRILL AVE A-2	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D56</a>	CORONA AERO REFINISH	7000 MERRILL AVE 24	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D57</a>	CAL AERO JET CENTER	7000 MERRILL AVE B-3	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D58</a>	CHAMPION JETS INC	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D59</a>	AIRCRAFTSMAN, INC	7000 MERRILL AVE HNG	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D60</a>	NORTH ORANGE AVIATIO	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D61</a>	INLAND VALLEY AVIATI	7000 MERRILL AVE UNI	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D62</a>	FAA CNO ATCT	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">D63</a>	AERO TRADER	7000 MERRILL AV, #19	CPS-SLIC, EMI, HAZNET, San Bern. Co. Permit	Lower	1185, 0.224, SW
<a href="#">64</a>	CAL-AERO AIRPORT		ENVIROSTOR	Lower	3045, 0.577, SSW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GEORGE BORBA & SON D 7955 EUCALYPTUS AVEN ONTARIO, CA 91762	AST Database: AST, Date of Government Version: 07/06/2016  ENF Facility Id: 630618 Status: Historical Status: Active  San Bern. Co. Permit Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0000455  CIWQS	N/A
GEORGE BORBA DAIRY 7955 EUCALYPTUS CHINO, CA 91710	CA FID UST Facility Id: 36009263 Status: A	N/A
GEORGE BORBA DAIRY 7955 EUCALYPTUS CHINO, CA 91710	SWEEPS UST Status: A Tank Status: A Comp Number: 66993  FINDS Registry ID:: 110006784756  ECHO Registry ID: 110006784756	N/A
GEORGE BORBA 7955 EUCALYPTUS AVE CHINO, CA 91710	HIST UST Facility Id: 00000066993	N/A
GEORGE BORBA & SONS 7955 EUCALYPTUS AVE CHINO, CA 91710	HAZNET GEPaid: CAC001082128	N/A
GEORGE BORBA & SON D 7955 EUCALYPTUS CHINO, CA 91710	NPDES WDS Facility Status: A Facility Id: 8 365291001  CIWQS	N/A
GEORGE BORBA & SON D 7955 EUCALYPTUS AVE ONTARIO, CA 91762	EMI	N/A

# EXECUTIVE SUMMARY

Facility Id: 145111

## **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

## EXECUTIVE SUMMARY

### **State- and tribal - equivalent NPL**

RESPONSE..... State Response Sites

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF..... Solid Waste Information System

### **State and tribal leaking storage tank lists**

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

### **State and tribal voluntary cleanup sites**

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Cleanup Program Properties

### **State and tribal Brownfields sites**

BROWNFIELDS..... Considered Brownfields Sites Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register

HIST Cal-Sites..... Historical Calsites Database

SCH..... School Property Evaluation Program

CDL..... Clandestine Drug Labs

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

CERS HAZ WASTE..... CERS HAZ WASTE

#### **Local Lists of Registered Storage Tanks**

CERS TANKS..... California Environmental Reporting System (CERS) Tanks

## EXECUTIVE SUMMARY

### **Local Land Records**

LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information  
DEED..... Deed Restriction Listing

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
CHMIRS..... California Hazardous Material Incident Report System  
LDS..... Land Disposal Sites Listing  
MCS..... Military Cleanup Sites Listing  
SPILLS 90..... SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
CUPA Listings..... CUPA Resources List



## EXECUTIVE SUMMARY

DRYCLEANERS.....	Cleaner Facilities
Financial Assurance.....	Financial Assurance Information Listing
ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WIP.....	Well Investigation Program Case List
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
UIC GEO.....	UIC GEO (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
CERS.....	CERS
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS list***

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 07/17/2018 has revealed that there are 2 SEMS sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHINO AIRPORT RADIUM</b> Site ID: 0906127 EPA Id: CAN000906127	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D30</b>	<b>53</b>
<b>CHINO AIRPORT NAPALM</b> Site ID: 0908946 EPA Id: CAN000908946	<b>7000 MERRILL AVENUE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D36</b>	<b>64</b>

#### ***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SOUTHERN CALIFORNIA</b> EPA ID:: CAR000220640	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D29</b>	<b>51</b>

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FLITE CRAFTENT EPA ID:: CAD982473696	7000 MERRILL	SW 1/8 - 1/4 (0.224 mi.)	D22	44
BANNER AIRLINES EPA ID:: CAD982474124	7000 MERRILL AVE #19	SW 1/8 - 1/4 (0.224 mi.)	D24	46
AERO TRADER EPA ID:: CAD982473910	7000 MERRILL AVE HAN	SW 1/8 - 1/4 (0.224 mi.)	D25	47
<b>FLITE CRAFTENT</b> EPA ID:: CAD982473563	<b>7000 MERRILL</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D28</b>	<b>49</b>
<b>SO CALIF EDISON AIRC</b> EPA ID:: CAD981689854	<b>7000 MERRILL AVE HAN</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D33</b>	<b>59</b>
<b>BUTTERFIELD AIRPLANE</b> EPA ID:: CAD982473936	<b>7000 MERRILL HGR #1</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D34</b>	<b>60</b>
<b>UNLIMITED AIRCRAFT I</b> EPA ID:: CAD982474066	<b>7000 MERRILL BOX 27</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D35</b>	<b>62</b>

### **State- and tribal - equivalent CERCLIS**

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/30/2018 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CAL-AERO FIELD / ACA Facility Id: 80000986 Status: Inactive - Needs Evaluation		SW 1/8 - 1/4 (0.219 mi.)	D21	42
CAL-AERO AIRPORT Facility Id: 80000207 Status: Inactive - Needs Evaluation		SSW 1/2 - 1 (0.577 mi.)	64	92

### **State and tribal leaking storage tank lists**

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within

## EXECUTIVE SUMMARY

approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRIVATE RESIDENCE Database: LUST, Date of Government Version: 06/11/2018 Status: Completed - Case Closed Global Id: T0607175289	PRIVATE RESIDENCE	E 0 - 1/8 (0.010 mi.)	C14	25

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>VAN'S MOBILE TRUCK S</b> Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Completed - Case Closed Global Id: T10000002398	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D43</b>	<b>67</b>
<b>AERO TRADER</b> Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Open - Remediation Global Id: SL208634049	<b>7000 MERRILL AV, #19</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D63</b>	<b>83</b>

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AG-MURRAY, DONALD L.</b> Database: UST, Date of Government Version: 06/11/2018 Facility Id: 95036944 Facility Id: FA0002968 Facility Id: 87012670 Facility Id: 98045919 Facility Id: 87014446	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D23</b>	<b>45</b>

## EXECUTIVE SUMMARY

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 4 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SB COUNTY MAINTENANC Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE.	SW 1/8 - 1/4 (0.224 mi.)	D40	66
CHAMPIONSHIP AVIATIO Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D49	72
SOUTHERN CALIFORNIA Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE, BO	SW 1/8 - 1/4 (0.224 mi.)	D52	73
<b>CHINO ROAD YARD</b> Database: AST, Date of Government Version: 07/06/2016	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Registered Storage Tanks**

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AG-COSTA VIEW FARM</b> Status: A Tank Status: A Comp Number: 44727	<b>14451 BON VIEW</b>	<b>WNW 0 - 1/8 (0.101 mi.)</b>	<b>17</b>	<b>29</b>
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>CHINO AIRPORT</b> Status: A Tank Status: A Comp Number: 10545	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D31</b>	<b>54</b>
<b>CHINO ROAD YARD</b> Status: A Tank Status: A Comp Number: 8707	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>

## EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHINO AIRPORT</b> Facility Id: 00000010545	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D31</b>	<b>54</b>
CHINO ROAD YARD Facility Id: 00000031581 Facility Id: 00000065869	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D32	58
CHINO ROADYARD Facility Id: 00000008707	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D37	64
<b>CHINO ROAD YARD</b>	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AG-COSTA VIEW FARM</b> Facility Id: 36009015 Status: A	<b>14451 BON VIEW</b>	<b>WNW 0 - 1/8 (0.101 mi.)</b>	<b>17</b>	<b>29</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHINO ROAD YARD</b> Facility Id: 36002274 Status: A	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>

### Other Ascertainable Records

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/21/2018 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AURORA FARMS Registry ID:: 110065010972	14746 GROVE	0 - 1/8 (0.000 mi.)	B8	22
BOERSMA INC.	14746 GROVE	0 - 1/8 (0.000 mi.)	B11	23

## EXECUTIVE SUMMARY

Registry ID:: 110065700450

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/25/2018 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHINO ROAD YARD</b>	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 07/27/2018 has revealed that there are 33 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JOE BORBA DAIRY # 2 Facility Status: INACTIVE Facility Id: FA0000513	14545 S GROVE AVE	E 0 - 1/8 (0.007 mi.)	C13	24
<b>O &amp; M DAIRY</b> Facility Status: INACTIVE Facility Id: FA0010952 Facility Id: FA0000566	<b>14474 GROVE AVE</b>	<b>NE 0 - 1/8 (0.075 mi.)</b>	<b>16</b>	<b>27</b>
JOE FERREIRA JR DAIR Facility Status: INACTIVE Facility Id: FA0000515	14400 S GROVE AVE	NE 1/8 - 1/4 (0.137 mi.)	18	35
<b>ALEWYN DAIRY #3</b> Facility Status: INACTIVE Facility Id: FA0000511	<b>14361 GROVE</b>	<b>NE 1/8 - 1/4 (0.195 mi.)</b>	<b>20</b>	<b>40</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HARRY BOERSMA DAIRY Facility Status: INACTIVE Facility Id: FA0000480	14746 GROVE	SE 0 - 1/8 (0.006 mi.)	B12	23
HARINGA FARMS Facility Status: INACTIVE Facility Id: FA0000478	14848 S GROVE AVE	SSE 0 - 1/8 (0.055 mi.)	15	27
<b>CHINO VALLEY DAIRY #</b> Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013590 Facility Id: FA0011040 Facility Id: FA0000529	<b>7565 EUCALYPTUS AVEN</b>	<b>W 1/8 - 1/4 (0.192 mi.)</b>	<b>19</b>	<b>35</b>
<b>AG-MURRAY, DONALD L.</b> Facility Status: INACTIVE Facility Id: FA0000576	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D23</b>	<b>45</b>
JET CONNECT SERVICES	7000 MERRILL AVE BOX	SW 1/8 - 1/4 (0.224 mi.)	D26	48

## EXECUTIVE SUMMARY

Facility Status: INACTIVE Facility Id: FA0013010					
YANKS AIR CORPS Facility Status: ACTIVE Facility Id: FA0007356	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D27	49	
ROGERS AVIATION Facility Status: INACTIVE Facility Id: FA0005784	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D38	65	
SILVER STATE HELICOP Facility Status: INACTIVE Facility Id: FA0011377	7000 MERRILL AVE A-2	SW 1/8 - 1/4 (0.224 mi.)	D39	66	
AERO TRADER Facility Status: ACTIVE Facility Id: FA0000315	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D41	67	
AIRCRAFTSMAN Facility Status: INACTIVE Facility Id: FA0000752	7000 MERRILL HGR AVE	SW 1/8 - 1/4 (0.224 mi.)	D42	67	
<b>VAN'S MOBILE TRUCK S</b> Facility Status: INACTIVE Facility Id: FA0010632 Facility Id: FA0000826	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D43</b>	<b>67</b>	
TOM KING AERIAL Facility Status: INACTIVE Facility Id: FA0000313	7000 MERRILL AVE BOX	SW 1/8 - 1/4 (0.224 mi.)	D44	69	
CENTURY AIRCRAFT PAI Facility Status: ACTIVE Facility Id: FA0001669	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D45	70	
NU VISTA AVIATION Facility Status: INACTIVE Facility Id: FA0011767	7000 MERRILL AVE BLD	SW 1/8 - 1/4 (0.224 mi.)	D46	70	
SBC/CHINO AIRPORT Facility Status: INACTIVE Facility Id: FA0007715 Facility Id: FA0012706	7000 MERRILL AVE BLD	SW 1/8 - 1/4 (0.224 mi.)	D47	70	
CHINO AVIATION Facility Status: INACTIVE Facility Id: FA0010623	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D48	71	
MILITARY AIRCRAFT RE Facility Status: INACTIVE Facility Id: FA0004729	7000 MERRILL AVE A48	SW 1/8 - 1/4 (0.224 mi.)	D50	72	
SAN BDNO COUNTY/CHIN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0002372	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D51	73	
SQUARE ONE AVIATION Facility Status: INACTIVE Facility Id: FA0006363	7000 MERRILL AVE BX	SW 1/8 - 1/4 (0.224 mi.)	D53	74	
<b>CHINO ROAD YARD</b> Facility Status: ACTIVE	<b>7000 MERRILL AVE</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D54</b>	<b>74</b>	



## EXECUTIVE SUMMARY

Facility Status: INACTIVE Facility Id: FA0002277				
ENCORE JET CENTER Facility Status: ACTIVE Facility Id: FA0002968	7000 MERRILL AVE A-2	SW 1/8 - 1/4 (0.224 mi.)	D55	80
CORONA AERO REFINISH Facility Status: INACTIVE Facility Id: FA0002505	7000 MERRILL AVE 24	SW 1/8 - 1/4 (0.224 mi.)	D56	80
CAL AERO JET CENTER Facility Status: INACTIVE Facility Id: FA0006862	7000 MERRILL AVE B-3	SW 1/8 - 1/4 (0.224 mi.)	D57	81
CHAMPION JETS INC Facility Status: INACTIVE Facility Id: FA0010634	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D58	81
AIRCRAFTSMAN, INC Facility Status: INACTIVE Facility Id: FA0012605	7000 MERRILL AVE HNG	SW 1/8 - 1/4 (0.224 mi.)	D59	82
NORTH ORANGE AVIATIO Facility Status: INACTIVE Facility Id: FA0004997	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D60	82
INLAND VALLEY AVIATI Facility Status: ACTIVE Facility Id: FA0012712	7000 MERRILL AVE UNI	SW 1/8 - 1/4 (0.224 mi.)	D61	83
FAA CNO ATCT Facility Status: ACTIVE Facility Id: FA0003024	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D62	83
<b>AERO TRADER</b> Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0017228 Facility Id: FA0003212 Facility Id: FA0017000 Facility Id: FA0012994 Facility Id: FA0007572	<b>7000 MERRILL AV, #19</b>	<b>SW 1/8 - 1/4 (0.224 mi.)</b>	<b>D63</b>	<b>83</b>

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CIWQS list, as provided by EDR, and dated 06/04/2018 has revealed that there are 2 CIWQS sites within approximately 0.001 miles of the target property.

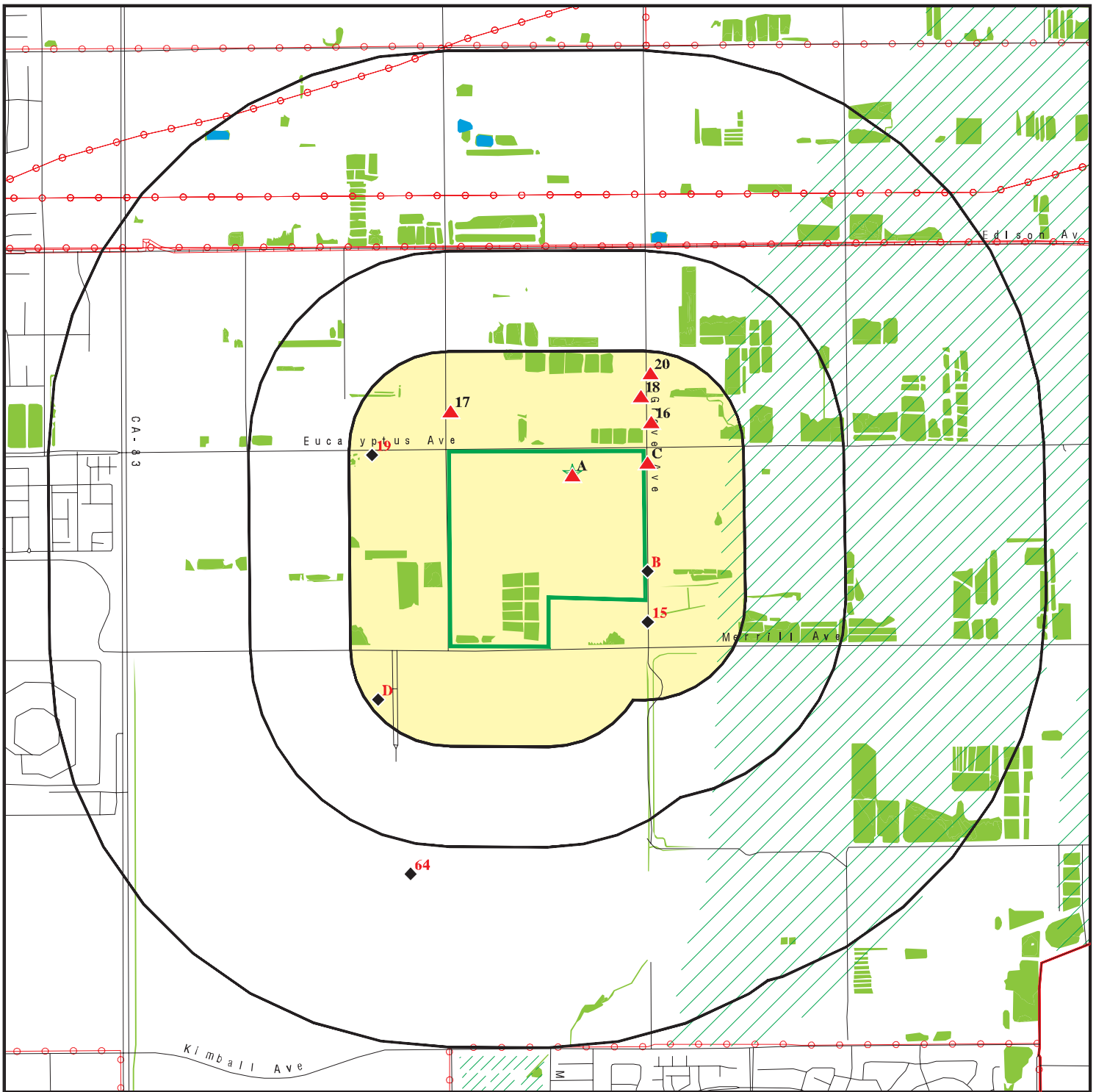
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOERSMA INC.	14746 GROVE	0 - 1/8 (0.000 mi.)	B9	22
AURORA FARMS	14746 GROVE	0 - 1/8 (0.000 mi.)	B10	23

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

<u>Site Name</u>	<u>Database(s)</u>
	CDL
	CDL
	CDL
	CDL
	CDL
	CDL
SO CAL GAS/ONTARIO MGP	EDR MGP

# OVERVIEW MAP - 5440037.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

Areas of Concern

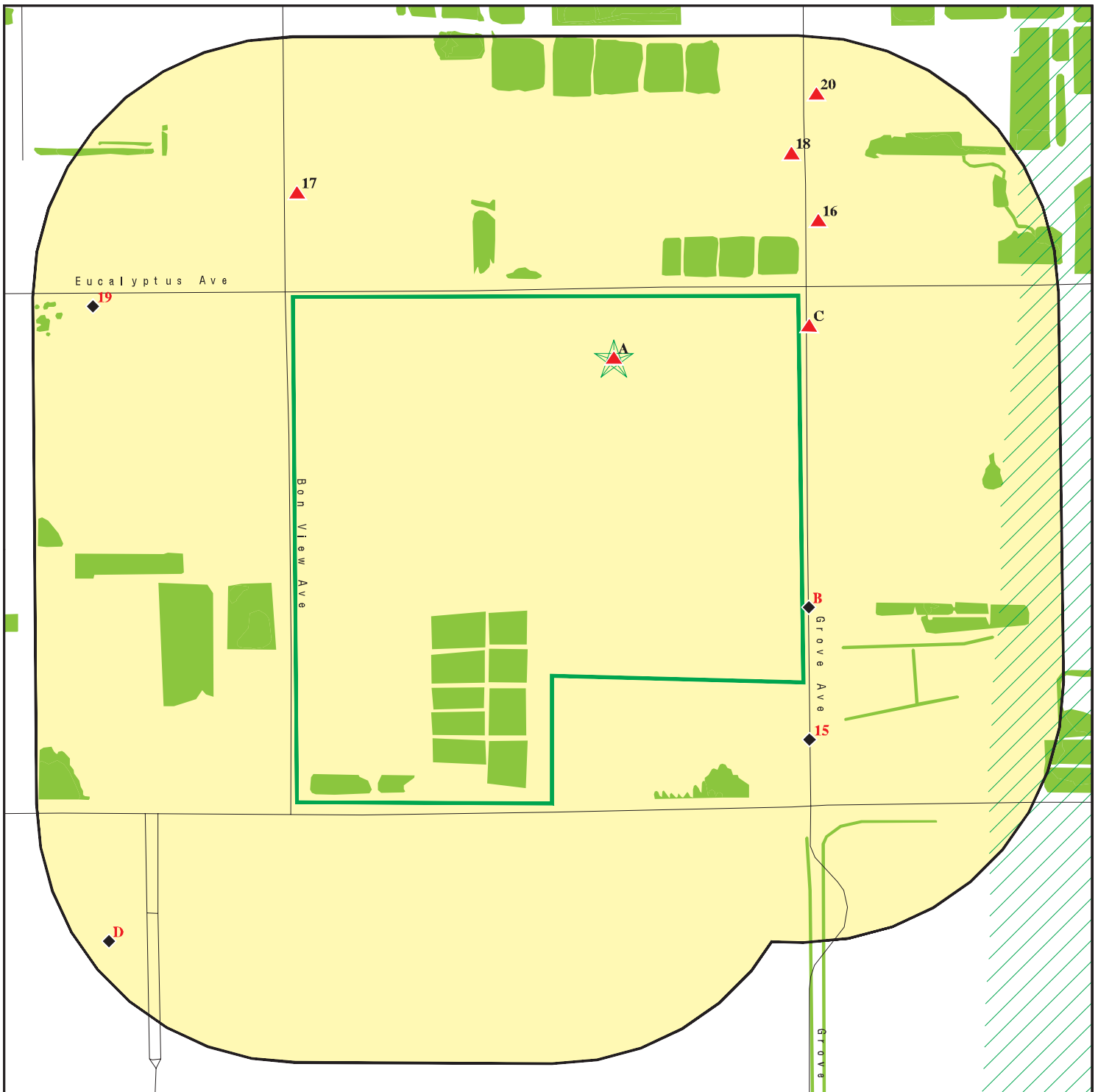















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: George Borba Site  
 ADDRESS: 7955 Eucalyptus Ave  
 Chino CA 91710  
 LAT/LONG: 33.989449 / 117.631268

CLIENT: Group Delta Consultants  
 CONTACT: Elaine Horng  
 INQUIRY #: 5440037.2S  
 DATE: October 01, 2018 4:32 pm

# DETAIL MAP - 5440037.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: George Borba Site  
 ADDRESS: 7955 Eucalyptus Ave  
 Chino CA 91710  
 LAT/LONG: 33.989449 / 117.631268

CLIENT: Group Delta Consultants  
 CONTACT: Elaine Horng  
 INQUIRY #: 5440037.2s  
 DATE: October 01, 2018 4:38 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	2	0	NR	NR	2
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	7	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
ENVIROSTOR	1.000		0	1	0	1	NR	2
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		1	0	0	NR	NR	1

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	2	0	NR	NR	2
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250	1	0	4	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
SWEEPS UST	0.250	1	1	2	NR	NR	NR	4
HIST UST	0.250	1	0	4	NR	NR	NR	5
CA FID UST	0.250	1	1	1	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	2	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001	1	0	NR	NR	NR	NR	1
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	1	0	NR	NR	NR	NR	1
San Bern. Co. Permit	0.250	1	4	29	NR	NR	NR	34
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001	1	0	NR	NR	NR	NR	1
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	2	2	NR	NR	NR	NR	4

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --                                      14                      11                      55                      0                      1                      0                      81

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**      **GEORGE BORBA & SON DAIRY**  
**Target**    **7955 EUCALYPTUS AVENUE**  
**Property**   **ONTARIO, CA 91762**

**AST**    **S108536441**  
**ENF**    **N/A**  
**San Bern. Co. Permit**  
**CIWQS**

**Site 1 of 7 in cluster A**

**Actual:**  
**671 ft.**

**AST:**  
Certified Unified Program Agencies: Not reported  
Owner: GEORGE BORBA & SON DAIRY  
Total Gallons: Not reported  
CERSID: 10034668  
Facility ID: FA0000455  
Business Name: GEORGE BORBA & SON DAIRY  
Phone: (909) 597-2568  
Fax: (909) 393-3283  
Mailing Address: 7955 EUCALYPTUS  
Mailing Address City: ONTARIO  
Mailing Address State: CA  
Mailing Address Zip Code: 91762  
Operator Name: George Borba  
Operator Phone: 909-597-2568  
Owner Phone: 909-597-2568  
Owner Mail Address: 7955 EUCALYPTUS  
Owner State: CA  
Owner Zip Code: 91762  
Owner Country: United States  
Property Owner Name: George Borba  
Property Owner Phone: 909-597-2568  
Property Owner Mailing Address: 7955 Eucalyptus Ave  
Property Owner City: Ontario  
Property Owner Stat : Ca  
Property Owner Zip Code: 91762  
Property Owner Country: United States  
EPAID: CAL000307535

**ENF:**  
Region: 8  
Facility Id: 630618  
Agency Name: Borba, George  
Place Type: Growing  
Place Subtype: Animal Feeding  
Facility Type: Agricultural  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 33.989440000000  
Place Longitude: -117.63126  
SIC Code 1: Not reported  
SIC Desc 1: Not reported  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S108536441**

Source Of Facility:	Reg Meas
Design Flow:	0.0001
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365291001
Reg Measure Id:	211628
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	07/23/2009
Effective Date:	04/13/1984
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	391911
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	08/08/2012
Adoption/Issuance Date:	08/08/2012
Achieve Date:	Not reported
Termination Date:	08/08/2012
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 08/08/2012 for Borba, George
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S108536441**

Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	8
Facility Id:	630618
Agency Name:	Borba, George
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.989440000000
Place Longitude:	-117.63126
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.0001
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365291001
Reg Measure Id:	211628
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	07/23/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S108536441**

Effective Date: 04/13/1984  
Expiration/Review Date: 06/01/2018  
Termination Date: Not reported  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: Y  
Individual/General: I  
Fee Code: 10 - Confined animal feeding facility  
Direction/Voice: Passive  
Enforcement Id(EID): 347185  
Region: 8  
Order / Resolution Number: Not reported  
Enforcement Action Type: Oral Communication  
Effective Date: 12/12/2007  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: 12/12/2007  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Historical  
Title: Oral Comm 12/12/2007  
Description: Not reported  
Program: ANIWSTCOWS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0000455  
Owner: GEORGE BORBA & SON DAIRY  
Permit Number: PT0018955  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 05/31/2019

Region: SAN BERNARDINO  
Facility ID: FA0000455  
Owner: GEORGE BORBA & SON DAIRY  
Permit Number: PT0018956  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 05/31/2019

Region: SAN BERNARDINO  
Facility ID: FA0000455  
Owner: GEORGE BORBA & SON DAIRY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S108536441**

Permit Number: PT0026616  
Permit Category: APSA FARM/CONSTRUCTION CONDITIONALLY EXEMPT  
Facility Status: INACTIVE  
Expiration Date: 05/31/2019

CIWQS:

Agency: Borba, George  
Agency Address: 14461 Taft Highway, Bakersfield, CA 93311  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: Not reported  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Active  
Regulatory Measure Type: Enrollee  
Order Number: R8-2013-0001  
WDID: 8 365291001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 04/13/1984  
Termination Date: Not reported  
Expiration/Review Date: 06/01/2018  
Design Flow: 0.0001  
Major/Minor: Minor  
Complexity: C  
TTWQ: 2  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.98944  
Longitude: -117.63126

**A2  
Target  
Property**

**GEORGE BORBA DAIRY  
7955 EUCALYPTUS  
CHINO, CA 91710**

**CA FID UST S101591831  
N/A**

**Site 2 of 7 in cluster A**

**Actual:  
671 ft.**

CA FID UST:  
Facility ID: 36009263  
Regulated By: UTNKA  
Regulated ID: 00066993  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 7145972568  
Mail To: Not reported  
Mailing Address: 7955 EUCALYPTUS  
Mailing Address 2: Not reported  
Mailing City,St,Zip: CHINO 91710  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A3**  
**Target**  
**Property**

**GEORGE BORBA DAIRY**  
**7955 EUCALYPTUS**  
**CHINO, CA 91710**

**SWEEPS UST**  
**FINDS**  
**ECHO**

**1005585030**  
**N/A**

**Site 3 of 7 in cluster A**

**Actual:**  
**671 ft.**

**SWEEPS UST:**

Status: Active  
Comp Number: 66993  
Number: 9  
Board Of Equalization: Not reported  
Referral Date: 08-27-91  
Action Date: 08-27-91  
Created Date: 02-29-88  
Owner Tank Id: 2  
SWRCB Tank Id: 36-000-066993-000001  
Tank Status: A  
Capacity: 1000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 2

Status: Active  
Comp Number: 66993  
Number: 9  
Board Of Equalization: Not reported  
Referral Date: 08-27-91  
Action Date: 08-27-91  
Created Date: 02-29-88  
Owner Tank Id: 1  
SWRCB Tank Id: 36-000-066993-000002  
Tank Status: A  
Capacity: 1000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

**FINDS:**

Registry ID: 110006784756

**Environmental Interest/Information System**

**AIR EMISSIONS CLASSIFICATION UNKNOWN**

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GEORGE BORBA DAIRY (Continued)**

**1005585030**

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1005585030  
 Registry ID: 110006784756  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110006784756>

**A4  
 Target  
 Property**

**GEORGE BORBA  
 7955 EUCALYPTUS AVE  
 CHINO, CA 91710**

**HIST UST U001568910  
 N/A**

**Site 4 of 7 in cluster A**

**Actual:  
 671 ft.**

HIST UST:  
 File Number: 00029F29  
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029F29.pdf>  
 Region: STATE  
 Facility ID: 00000066993  
 Facility Type: Other  
 Other Type: Not reported  
 Contact Name: Not reported  
 Telephone: 7145972568  
 Owner Name: GEORGE BORBA  
 Owner Address: 7955 EUCALYPTUS AVE.  
 Owner City,St,Zip: CHINO, CA 91710  
 Total Tanks: 0002

Tank Num: 001  
 Container Num: 2  
 Year Installed: Not reported  
 Tank Capacity: 00001000  
 Tank Used for: WASTE  
 Type of Fuel: 1  
 Container Construction Thickness: 0 1  
 Leak Detection: Stock Inventor

Tank Num: 002  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 00001000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA (Continued)**

**U001568910**

Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: 10  
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

**A5  
Target  
Property**

**GEORGE BORBA & SONS DAIRY  
7955 EUCALYPTUS AVE  
CHINO, CA 91710**

**HAZNET S112865856  
N/A**

**Site 5 of 7 in cluster A**

**Actual:  
671 ft.**

HAZNET:  
envid: S112865856  
Year: 1998  
GEPID: CAC001082128  
Contact: GEORGE BORBA  
Telephone: 9095972568  
Mailing Name: Not reported  
Mailing Address: 7955 EUCALYPTUS AVE  
Mailing City,St,Zip: CHINO, CA 917100000  
Gen County: Not reported  
TSD EPA ID: CAT080013352  
TSD County: Not reported  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: 1.0425  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

**A6  
Target  
Property**

**GEORGE BORBA & SON DAIRY  
7955 EUCALYPTUS  
CHINO, CA 91710**

**NPDES S102005971  
WDS N/A  
CIWQS**

**Site 6 of 7 in cluster A**

**Actual:  
671 ft.**

NPDES:  
Facility Status: Not reported  
NPDES Number: Not reported  
Region: Not reported  
Agency Number: Not reported  
Regulatory Measure ID: Not reported  
Place ID: Not reported  
Order Number: Not reported  
WDID: 8 36I005720  
Regulatory Measure Type: Industrial  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: Not reported  
Discharge Name: Not reported  
Discharge City: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S102005971**

Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/07/1992
Operator Name:	Borba George Jr
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
NPDES as of 03/2018:	
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	299351
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I005720
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/07/1992
Status:	Terminated
Status Date:	04/07/1992
Place Size:	40
Place Size Unit:	Acres
Contact:	George Borba
Contact Title:	Not reported
Contact Phone:	909-597-2568
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Borba, George Jr
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Individual
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S102005971**

Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: 949-597-2568  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: Not reported  
Receiving Water Name: Not reported  
Certifier: Not reported  
Certifier Title: Not reported  
Certification Date: Not reported  
Primary Sic: 0241-Dairy Farms  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

**WDS:**

Facility ID: Santa Ana River 365291001  
Facility Type: Agricultural - Facility that treats and/or disposes of the wastes associated with confined and concentrated animal feeding, confined animal feeding, confined animal holding, confined and concentrated aquatic animal production facilities, and aquaculture. the treatment and/or disposal of agricultural return water is included in this category.  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAG018001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 8  
Facility Telephone: Not reported  
Facility Contact: Not reported  
Agency Name: BORBA GEORGE  
Agency Address: 7955 EUCALYPTUS  
Agency City,St,Zip: CHINO 91710  
Agency Contact: GEORGE BORBA  
Agency Telephone: 9095972568  
Agency Type: Private  
SIC Code: 241  
SIC Code 2: Not reported  
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY (Continued)**

**S102005971**

waste).  
Primary Waste: STORMS  
Waste Type2: N  
Waste2: Stormwater Runoff  
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
Secondary Waste: Solid Wastes  
Secondary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: No reclamation requirements associated with this facility.  
POTW: The facility is not a POTW.  
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

**CIWQS:**

Agency: Borba, George Jr  
Agency Address: 7955 Eucalyptus Ave, Chino, CA 91710  
Place/Project Type: Industrial - Dairy Farms  
SIC/NAICS: 241  
Region: 8  
Program: INDSTW  
Regulatory Measure Status: Terminated  
Regulatory Measure Type: Storm water industrial  
Order Number: 2014-0057-DWQ  
WDID: 8 361005720  
NPDES Number: CAS000001  
Adoption Date: Not reported  
Effective Date: 04/07/1992  
Termination Date: Not reported  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.99042  
Longitude: -117.63128

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A7**      **GEORGE BORBA & SON DAIRY, GEORGE BORBA**  
**Target**    **7955 EUCALYPTUS AVE**  
**Property**   **ONTARIO, CA 91762**

**EMI**    **S109281609**  
          **N/A**

**Site 7 of 7 in cluster A**

**Actual:**  
**671 ft.**

EMI:  
Year: 2006  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.253363870598339536  
Reactive Organic Gases Tons/Yr: 3.67  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.559  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.2521187  
  
Year: 2007  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.253363870598339536  
Reactive Organic Gases Tons/Yr: 3.67  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.559  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.2521187  
  
Year: 2008  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.639851130833094760  
Reactive Organic Gases Tons/Yr: 3.94  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.79  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.365147  
  
Year: 2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued)**

**S109281609**

County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.5253363870598298  
Reactive Organic Gases Tons/Yr: 3.8599999999999999  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.7400000000000002  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.3406819999999999

Year: 2010  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.7630117377612304  
Reactive Organic Gases Tons/Yr: 4.0260400000000001  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.8871600000000002  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.4126873879999999

Year: 2011  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.7171628972  
Reactive Organic Gases Tons/Yr: 3.99401  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.86936  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.403977848

Year: 2012  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued)**

**S109281609**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.6808903521  
Reactive Organic Gases Tons/Yr: 3.96867  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.848  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.3935264

Year: 2013  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 5.5424682396  
Reactive Organic Gases Tons/Yr: 3.97007  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.91386  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.425751698

Year: 2015  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 48.45929662  
Reactive Organic Gases Tons/Yr: 3.89622162  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 2.9281  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.41075858

Year: 2016  
County Code: 36  
Air Basin: SC  
Facility ID: 145111  
Air District Name: SC  
SIC Code: 241  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 48.00576  
Reactive Organic Gases Tons/Yr: 3.84576  
Carbon Monoxide Emissions Tons/Yr: Not reported  
NOX - Oxides of Nitrogen Tons/Yr: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued)**

**S109281609**

SOX - Oxides of Sulphur Tons/Yr: Not reported  
 Particulate Matter Tons/Yr: 2.9  
 Part. Matter 10 Micrometers and Smllr Tons/Yr:1.39722

**B8**  
 < 1/8  
 1 ft.

**AURORA FARMS**  
**14746 GROVE**  
**CHINO, CA 91710**

**FINDS S1023215351**  
**N/A**

**Site 1 of 5 in cluster B**

**Relative:**  
**Lower**

FINDS:

**Actual:**  
**663 ft.**

Registry ID: 110065010972  
 Environmental Interest/Information System  
 STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**B9**  
 < 1/8  
 1 ft.

**BOERSMA INC.**  
**14746 GROVE**  
**CHINO, CA**

**CIWQS S121624226**  
**N/A**

**Site 2 of 5 in cluster B**

**Relative:**  
**Lower**

CIWQS:

**Actual:**  
**663 ft.**

Agency: Boersma, Harry  
 Agency Address: 14746 Grove Avenue, Chino, CA 91710  
 Place/Project Type: Animal Feeding Facility  
 SIC/NAICS: 241  
 Region: 8  
 Program: ANIWSTCOWS, WDR  
 Regulatory Measure Status: Historical  
 Regulatory Measure Type: WDR  
 Order Number: 88-05001  
 WDID: 8 365298001  
 NPDES Number: Not reported  
 Adoption Date: 06/10/1988  
 Effective Date: 06/10/1988  
 Termination Date: Not reported  
 Expiration/Review Date: Not reported  
 Design Flow: 0.0001  
 Major/Minor: Not reported  
 Complexity: C  
 TTWQ: 3  
 Enforcement Actions within 5 years: 0  
 Violations within 5 years: 0  
 Latitude: Not reported  
 Longitude: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance		Database(s)	
Elevation	Site		

<b>B10</b>	<b>AURORA FARMS</b> <b>14746 GROVE</b> <b>CHINO, CA 91710</b>	<b>CIWQS</b>	<b>S121621667</b> <b>N/A</b>
< 1/8 1 ft.	Site 3 of 5 in cluster B		

<b>Relative:</b>	CIWQS: Agency: Borba, George Agency Address: 14461 Taft Highway, Bakersfield, CA 93311 Place/Project Type: Animal Feeding Facility SIC/NAICS: 241 Region: 8 Program: ANIWSTCOWS Regulatory Measure Status: Historical Regulatory Measure Type: Enrollee Order Number: 99-011 WDID: 8 365760001 NPDES Number: CAG018001 Adoption Date: Not reported Effective Date: 09/09/1999 Termination Date: 06/28/2004 Expiration/Review Date: Not reported Design Flow: 0.0001 Major/Minor: Not reported Complexity: C TTWQ: 2 Enforcement Actions within 5 years: 0 Violations within 5 years: 0 Latitude: 33.986017 Longitude: -117.628012		
<b>Lower</b>			
<b>Actual:</b>			
<b>663 ft.</b>			

<b>B11</b>	<b>BOERSMA INC.</b> <b>14746 GROVE</b> <b>CHINO, CA 91710</b>	<b>FINDS</b>	<b>1023279497</b> <b>N/A</b>
< 1/8 1 ft.	Site 4 of 5 in cluster B		

<b>Relative:</b>	FINDS: Registry ID: 110065700450 Environmental Interest/Information System STATE MASTER		
<b>Lower</b>			
<b>Actual:</b>			
<b>663 ft.</b>			

Click this [hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

<b>B12</b>	<b>HARRY BOERSMA DAIRY</b> <b>14746 GROVE</b> <b>ONTARIO, CA 91762</b>	<b>San Bern. Co. Permit</b>	<b>S104761845</b> <b>N/A</b>
SE < 1/8 0.006 mi. 33 ft.	Site 5 of 5 in cluster B		

<b>Relative:</b>	San Bern. Co. Permit: Region: SAN BERNARDINO Facility ID: FA0000480 Owner: HARRY BOERSMA DAIRY		
<b>Lower</b>			
<b>Actual:</b>			
<b>663 ft.</b>			



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRY BOERSMA DAIRY (Continued)**

**S104761845**

Permit Number: PT0003766  
Permit Category: HAZMAT HANDLER - AGRICULTURAL(FE)  
Facility Status: INACTIVE  
Expiration Date: 10/31/1988

**C13  
East  
< 1/8  
0.007 mi.  
38 ft.**

**JOE BORBA DAIRY # 2  
14545 S GROVE AVE  
ONTARIO, CA 91762**

**San Bern. Co. Permit**

**S108724274  
N/A**

**Site 1 of 2 in cluster C**

**Relative:  
Higher**

San Bern. Co. Permit:

**Actual:  
673 ft.**

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019436  
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019098  
Permit Category: HAZARDOUS WASTE GENERATOR - 11-25 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019097  
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019100  
Permit Category: AST OPERATING PERMIT  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019101  
Permit Category: AST OPERATING PERMIT  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019102  
Permit Category: AST OPERATING PERMIT  
Facility Status: INACTIVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOE BORBA DAIRY # 2 (Continued)**

**S108724274**

Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019103  
Permit Category: AST OPERATING PERMIT  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000513  
Owner: JOSEPH & DOLEEN BORBA ADM TRUS  
Permit Number: PT0019558  
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)  
Facility Status: INACTIVE  
Expiration Date: 07/31/2007

**C14  
East  
< 1/8  
0.010 mi.  
54 ft.**

**PRIVATE RESIDENCE  
PRIVATE RESIDENCE  
CHINO, CA**

**LUST S110655056  
N/A**

**Site 2 of 2 in cluster C**

**Relative:  
Higher  
Actual:  
673 ft.**

LUST:

Lead Agency: SANTA ANA RWQCB (REGION 8)  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0607175289](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607175289)  
Global Id: T0607175289  
Latitude: 33.9899  
Longitude: -117.628  
Status: Completed - Case Closed  
Status Date: 10/18/2006  
Case Worker: RS  
RB Case Number: 083604041T  
Local Agency: SAN BERNARDINO COUNTY  
File Location: Not reported  
Local Case Number: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel, Gasoline  
Site History: Not reported

LUST:

Global Id: T0607175289  
Contact Type: Local Agency Caseworker  
Contact Name: CATHERINE RICHARDS  
Organization Name: SAN BERNARDINO COUNTY  
Address: 620 SOUTH E STREET  
City: SAN BERNARDINO  
Email: crichards@sbcfire.org  
Phone Number: 9093868419

Global Id: T0607175289  
Contact Type: Regional Board Caseworker  
Contact Name: ROSE SCOTT  
Organization Name: SANTA ANA RWQCB (REGION 8)  
Address: 3737 MAIN STREET, SUITE 500  
City: RIVERSIDE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIVATE RESIDENCE (Continued)**

**S110655056**

Email: rose.scott@waterboards.ca.gov  
Phone Number: 9513206375

LUST:

Global Id: T0607175289  
Action Type: Other  
Date: 01/13/2004  
Action: Leak Began

Global Id: T0607175289  
Action Type: RESPONSE  
Date: 02/03/2006  
Action: Soil and Water Investigation Report

Global Id: T0607175289  
Action Type: ENFORCEMENT  
Date: 09/02/2005  
Action: Meeting

Global Id: T0607175289  
Action Type: REMEDIATION  
Date: 04/27/2004  
Action: Excavation

Global Id: T0607175289  
Action Type: ENFORCEMENT  
Date: 10/18/2006  
Action: Closure/No Further Action Letter

Global Id: T0607175289  
Action Type: Other  
Date: 01/13/2004  
Action: Leak Stopped

Global Id: T0607175289  
Action Type: Other  
Date: 09/02/2005  
Action: Leak Reported

Global Id: T0607175289  
Action Type: Other  
Date: 01/13/2004  
Action: Leak Discovery

LUST:

Global Id: T0607175289  
Status: Open - Case Begin Date  
Status Date: 01/13/2004

Global Id: T0607175289  
Status: Open - Site Assessment  
Status Date: 09/02/2005

Global Id: T0607175289  
Status: Open - Verification Monitoring  
Status Date: 09/02/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PRIVATE RESIDENCE (Continued)**

**S110655056**

Global Id: T0607175289  
Status: Open - Site Assessment  
Status Date: 12/05/2005  
  
Global Id: T0607175289  
Status: Completed - Case Closed  
Status Date: 10/18/2006

**15  
SSE  
< 1/8  
0.055 mi.  
293 ft.**

**HARINGA FARMS  
14848 S GROVE AVE  
ONTARIO, CA 91762**

**San Bern. Co. Permit S104761842  
N/A**

**Relative:  
Lower  
Actual:  
659 ft.**

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0000478  
Owner: HARINGA, WILLIAM & RUDY E  
Permit Number: PT0008948  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 04/30/2007  
  
Region: SAN BERNARDINO  
Facility ID: FA0000478  
Owner: HARINGA, WILLIAM & RUDY E  
Permit Number: PT0008949  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 04/30/1997

**16  
NE  
< 1/8  
0.075 mi.  
397 ft.**

**O & M DAIRY  
14474 GROVE AVE  
ONTARIO, CA 91762**

**San Bern. Co. Permit S108536478  
CIWQS N/A**

**Relative:  
Higher  
Actual:  
676 ft.**

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0010952  
Owner: TRAVIS MOUW  
Permit Number: PT0018888  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 07/31/2010  
  
Region: SAN BERNARDINO  
Facility ID: FA0000566  
Owner: MIERSMA HARRY  
Permit Number: PT0008720  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 04/30/1997  
  
Region: SAN BERNARDINO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**O & M DAIRY (Continued)**

**S108536478**

Facility ID: FA0000566  
Owner: MIERSMA HARRY  
Permit Number: PT0008719  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 04/30/1997

CIWQS:

Agency: Mouw, Travis  
Agency Address: 14474 Grove Avenue, Ontario, CA 91762  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: Not reported  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: R8-2007-0001  
WDID: 8 365951001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 10/04/2007  
Termination Date: 11/02/2010  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Minor  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 1  
Latitude: 33.99137  
Longitude: -117.62687

Agency: Craig Gordon  
Agency Address: 16395 South Euclid Avenue, Chino, CA 91708  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: Not reported  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Active  
Regulatory Measure Type: Enrollee  
Order Number: R8-2013-0001  
WDID: 8 365983001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 12/02/2010  
Termination Date: Not reported  
Expiration/Review Date: 06/01/2018  
Design Flow: Not reported  
Major/Minor: Minor  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 1  
Latitude: 33.99137  
Longitude: -117.62687

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**17**  
**WNW**  
**< 1/8**  
**0.101 mi.**  
**531 ft.**

**AG-COSTA VIEW FARM**  
**14451 BON VIEW**  
**CHINO, CA 91710**

**SWEEPS UST**    **S101591786**  
**CA FID UST**    **N/A**  
**ENF**  
**CIWQS**

**Relative:**  
**Higher**  
**Actual:**  
**676 ft.**

**SWEEPS UST:**  
Status: Active  
Comp Number: 44727  
Number: 9  
Board Of Equalization: Not reported  
Referral Date: 08-27-91  
Action Date: 08-27-91  
Created Date: 02-29-88  
Owner Tank Id: 1  
SWRCB Tank Id: 36-000-044727-000001  
Tank Status: A  
Capacity: 550  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: 1

**CA FID UST:**  
Facility ID: 36009015  
Regulated By: UTNKA  
Regulated ID: 00044727  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 7145972360  
Mail To: Not reported  
Mailing Address: 14451 BON VIEW  
Mailing Address 2: Not reported  
Mailing City,St,Zip: CHINO 91710  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**ENF:**  
Region: 8  
Facility Id: 241364  
Agency Name: Anema, Greg  
Place Type: Growing  
Place Subtype: Animal Feeding  
Facility Type: Agricultural  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 33.9912429999999  
Place Longitude: -117.636781  
SIC Code 1: 241  
SIC Desc 1: Dairy Farms  
SIC Code 2: Not reported  
SIC Desc 2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AG-COSTA VIEW FARM (Continued)

S101591786

SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365920001
Reg Measure Id:	211879
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2007-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	218
Status:	Historical
Status Date:	12/30/2013
Effective Date:	11/29/2004
Expiration/Review Date:	Not reported
Termination Date:	01/10/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	383856
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Third Party Action
Effective Date:	09/26/2011
Adoption/Issuance Date:	09/26/2011
Achieve Date:	Not reported
Termination Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AG-COSTA VIEW FARM (Continued)**

**S101591786**

ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Administrative Order Issued by EPA on 09/26/2011 for Anema, Greg
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	8
Facility Id:	241364
Agency Name:	Anema, Greg
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.991242999999
Place Longitude:	-117.636781
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365920001
Reg Measure Id:	211879
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2007-0001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AG-COSTA VIEW FARM (Continued)**

**S101591786**

Npdes# CA#: CAG018001  
Major-Minor: Minor  
Npdes Type: Not reported  
Reclamation: N - No  
Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: 218  
Status: Historical  
Status Date: 12/30/2013  
Effective Date: 11/29/2004  
Expiration/Review Date: Not reported  
Termination Date: 01/10/2013  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: Y  
Individual/General: I  
Fee Code: 10 - Confined animal feeding facility  
Direction/Voice: Passive  
Enforcement Id(EID): 347120  
Region: 8  
Order / Resolution Number: Not reported  
Enforcement Action Type: Oral Communication  
Effective Date: 11/29/2004  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: 11/29/2004  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Historical  
Title: Oral Comm 11/29/04  
Description: Not reported  
Program: ANIWSTCOWS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

**CIWQS:**

Agency: Costa, Dimas  
Agency Address: 14451 Bon View Avenue, Chino, CA 91710  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: 99-011  
WDID: 8 365263001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AG-COSTA VIEW FARM (Continued)**

**S101591786**

NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 09/10/1982  
Termination Date: 09/25/2001  
Expiration/Review Date: Not reported  
Design Flow: 0.0001  
Major/Minor: Minor  
Complexity: C  
TTWQ: 2  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.991243  
Longitude: -117.636781

Agency: Wilson, JM  
Agency Address: 15733 Carpenter, Chino, CA 91710  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: R8-2007-0001  
WDID: 8 365903001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 11/20/2003  
Termination Date: 12/28/2006  
Expiration/Review Date: Not reported  
Design Flow: 0  
Major/Minor: Not reported  
Complexity: C  
TTWQ: 2  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.991243  
Longitude: -117.636781

Agency: Craig Gordon  
Agency Address: 16395 South Euclid Avenue, Chino, CA 91708  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Active  
Regulatory Measure Type: Enrollee  
Order Number: R8-2013-0001  
WDID: 8 366004001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 06/05/2013  
Termination Date: Not reported  
Expiration/Review Date: 06/01/2018  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AG-COSTA VIEW FARM (Continued)**

**S101591786**

Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.991243  
Longitude: -117.636781

Agency: Anema, Greg  
Agency Address: 8061 Edison Avenue, Chino, CA 91710  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: R8-2007-0001  
WDID: 8 365920001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 11/29/2004  
Termination Date: 01/10/2013  
Expiration/Review Date: Not reported  
Design Flow: 0  
Major/Minor: Minor  
Complexity: C  
TTWQ: 2  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.991243  
Longitude: -117.636781

Agency: Bouma, Peter  
Agency Address: 1500 South Haven Avenue 200, Ontario, CA 91761  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: 99-011  
WDID: 8 365875001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 09/10/2001  
Termination Date: 10/03/2003  
Expiration/Review Date: Not reported  
Design Flow: 0  
Major/Minor: Not reported  
Complexity: C  
TTWQ: 2  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.991243  
Longitude: -117.636781

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**18**  
**NE**  
**1/8-1/4**  
**0.137 mi.**  
**724 ft.**

**JOE FERREIRA JR DAIRY**  
**14400 S GROVE AVE**  
**ONTARIO, CA 91762**

**San Bern. Co. Permit**

**S106910656**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**679 ft.**

San Bern. Co. Permit:  
 Region: SAN BERNARDINO  
 Facility ID: FA0000515  
 Owner: JOE & LEONTINA FERREIRA TRUST  
 Permit Number: PT0003666  
 Permit Category: HAZMAT HANDLER - AGRICULTURAL(FE)  
 Facility Status: INACTIVE  
 Expiration Date: 02/28/1991

**19**  
**West**  
**1/8-1/4**  
**0.192 mi.**  
**1015 ft.**

**CHINO VALLEY DAIRY #1**  
**7565 EUCALYPTUS AVENUE**  
**ONTARIO, CA 91762**

**San Bern. Co. Permit**  
**ENF**  
**CIWQS**

**S109693846**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**669 ft.**

ENF:  
 Region: 8  
 Facility Id: 234639  
 Agency Name: Slegers, Bennett  
 Place Type: Growing  
 Place Subtype: Animal Feeding  
 Facility Type: Agricultural  
 Agency Type: Privately-Individual  
 # Of Agencies: 1  
 Place Latitude: 33.990346000000  
 Place Longitude: -117.6396830000  
 SIC Code 1: 241  
 SIC Desc 1: Dairy Farms  
 SIC Code 2: Not reported  
 SIC Desc 2: Not reported  
 SIC Code 3: Not reported  
 SIC Desc 3: Not reported  
 NAICS Code 1: Not reported  
 NAICS Desc 1: Not reported  
 NAICS Code 2: Not reported  
 NAICS Desc 2: Not reported  
 NAICS Code 3: Not reported  
 NAICS Desc 3: Not reported  
 # Of Places: 1  
 Source Of Facility: Reg Meas  
 Design Flow: Not reported  
 Threat To Water Quality: Not reported  
 Complexity: Not reported  
 Pretreatment: X - Facility is not a POTW  
 Facility Waste Type: Solid wastes, NEC  
 Facility Waste Type 2: Stormwater runoff  
 Facility Waste Type 3: Not reported  
 Facility Waste Type 4: Not reported  
 Program: ANIWSTCOWS  
 Program Category1: ANIMALWASTE  
 Program Category2: Not reported  
 # Of Programs: 1  
 WDID: 8 365981001  
 Reg Measure Id: 376727

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO VALLEY DAIRY #1 (Continued)**

**S109693846**

Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1839.5999999999999
Status:	Active
Status Date:	05/29/2013
Effective Date:	12/02/2010
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	392041
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	03/07/2013
Adoption/Issuance Date:	03/07/2013
Achieve Date:	Not reported
Termination Date:	03/07/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 03/07/2013 for Slegers, Bennett
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	8
Facility Id:	234639
Agency Name:	Slegers, Bennett
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Individual
# Of Agencies:	1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CHINO VALLEY DAIRY #1 (Continued)

S109693846

Place Latitude:	33.990346000000
Place Longitude:	-117.6396830000
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365981001
Reg Measure Id:	376727
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1839.5999999999999
Status:	Active
Status Date:	05/29/2013
Effective Date:	12/02/2010
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	392040
Region:	8

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO VALLEY DAIRY #1 (Continued)**

**S109693846**

Order / Resolution Number: Not reported  
Enforcement Action Type: Oral Communication  
Effective Date: 03/07/2013  
Adoption/Issuance Date: 03/07/2013  
Achieve Date: Not reported  
Termination Date: 03/07/2013  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Historical  
Title: Oral Com 03/07/2013 for Slegers, Bennett  
Description: Not reported  
Program: ANIWSTCOWS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0013590  
Owner: SLEGGERS, BEN  
Permit Number: PT0023850  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 10/31/2018

Region: SAN BERNARDINO  
Facility ID: FA0011040  
Owner: Frank Souza  
Permit Number: PT0019035  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0011040  
Owner: Frank Souza  
Permit Number: PT0019036  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 07/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0000529  
Owner: KASBERGEN DAIRY  
Permit Number: PT0018989  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 04/30/2007

Region: SAN BERNARDINO  
Facility ID: FA0000529

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO VALLEY DAIRY #1 (Continued)**

**S109693846**

Owner: KASBERGEN DAIRY  
Permit Number: PT0008943  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 04/30/1997

Region: SAN BERNARDINO  
Facility ID: FA0000529  
Owner: KASBERGEN DAIRY  
Permit Number: PT0008944  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 04/30/1997

**CIWQS:**

Agency: Slegers, Bennett  
Agency Address: 15914 Legacy Court, Bakersfield, CA 93314  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Active  
Regulatory Measure Type: Enrollee  
Order Number: R8-2013-0001  
WDID: 8 365981001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 12/02/2010  
Termination Date: Not reported  
Expiration/Review Date: 06/01/2018  
Design Flow: Not reported  
Major/Minor: Minor  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 0  
Violations within 5 years: 0  
Latitude: 33.990346  
Longitude: -117.639683

Agency: Frank Souza  
Agency Address: 16185 Euclid Avenue, Chino, CA 91708-9118  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241  
Region: 8  
Program: ANIWSTCOWS  
Regulatory Measure Status: Historical  
Regulatory Measure Type: Enrollee  
Order Number: R8-2007-0001  
WDID: 8 365931001  
NPDES Number: CAG018001  
Adoption Date: Not reported  
Effective Date: 05/25/2006  
Termination Date: 11/10/2010  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Minor  
Complexity: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CHINO VALLEY DAIRY #1 (Continued)**

**S109693846**

TTWQ: Not reported  
 Enforcement Actions within 5 years: 0  
 Violations within 5 years: 0  
 Latitude: 33.990346  
 Longitude: -117.639683

**20  
 NE  
 1/8-1/4  
 0.195 mi.  
 1031 ft.**

**ALEWYN DAIRY #3  
 14361 GROVE  
 ONTARIO, CA 91762**

**San Bern. Co. Permit  
 ENF  
 CIWQS**

**S104761898  
 N/A**

**Relative:  
 Higher**

ENF:

**Actual:  
 682 ft.**

Region: 8  
 Facility Id: 204960  
 Agency Name: Not reported  
 Place Type: Growing  
 Place Subtype: Animal Feeding  
 Facility Type: Agricultural  
 Agency Type: Not reported  
 # Of Agencies: Not reported  
 Place Latitude: 33.992964000000  
 Place Longitude: -117.628072  
 SIC Code 1: 241  
 SIC Desc 1: Dairy Farms  
 SIC Code 2: Not reported  
 SIC Desc 2: Not reported  
 SIC Code 3: Not reported  
 SIC Desc 3: Not reported  
 NAICS Code 1: Not reported  
 NAICS Desc 1: Not reported  
 NAICS Code 2: Not reported  
 NAICS Desc 2: Not reported  
 NAICS Code 3: Not reported  
 NAICS Desc 3: Not reported  
 # Of Places: 1  
 Source Of Facility: Enf Action  
 Design Flow: Not reported  
 Threat To Water Quality: Not reported  
 Complexity: Not reported  
 Pretreatment: Not reported  
 Facility Waste Type: Solid wastes, NEC  
 Facility Waste Type 2: Stormwater runoff  
 Facility Waste Type 3: Not reported  
 Facility Waste Type 4: Not reported  
 Program: ANIWSTCOWS  
 Program Category1: ANIMALWASTE  
 Program Category2: Not reported  
 # Of Programs: 1  
 WDID: Not reported  
 Reg Measure Id: 332712  
 Reg Measure Type: NPDES Permits  
 Region: 8  
 Order #: R8-2007-0001  
 Npdes# CA#: CAG018001  
 Major-Minor: Not reported  
 Npdes Type: Not reported  
 Reclamation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALEWYN DAIRY #3 (Continued)**

**S104761898**

Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: Not reported  
Status: Historical  
Status Date: 12/24/2013  
Effective Date: 09/07/2007  
Expiration/Review Date: 09/06/2012  
Termination Date: 06/06/2013  
WDR Review - Amend: Not reported  
WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
WDR Review - No Action Required: Not reported  
WDR Review - Pending: Not reported  
WDR Review - Planned: Not reported  
Status Enrollee: N  
Individual/General: G  
Fee Code: Not reported  
Direction/Voice: Passive  
Enforcement Id(EID): 347119  
Region: 8  
Order / Resolution Number: Not reported  
Enforcement Action Type: Oral Communication  
Effective Date: 10/08/1982  
Adoption/Issuance Date: Not reported  
Achieve Date: Not reported  
Termination Date: 10/08/1982  
ACL Issuance Date: Not reported  
EPL Issuance Date: Not reported  
Status: Historical  
Title: Oral Commun..  
Description: Not reported  
Program: ANIWSTCOWS  
Latest Milestone Completion Date: Not reported  
# Of Programs1: 1  
Total Assessment Amount: 0  
Initial Assessed Amount: 0  
Liability \$ Amount: 0  
Project \$ Amount: 0  
Liability \$ Paid: 0  
Project \$ Completed: 0  
Total \$ Paid/Completed Amount: 0

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0000511  
Owner: JACK & ELANE ALEWYN  
Permit Number: PT0003754  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 04/30/2013

CIWQS:

Agency: Craig Gordon  
Agency Address: 16395 South Euclid Avenue, Chino, CA 91708  
Place/Project Type: Animal Feeding Facility  
SIC/NAICS: 241

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALEWYN DAIRY #3 (Continued)**

**S104761898**

Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 366006001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	06/13/2013
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.992964
Longitude:	-117.628072
Agency:	Alewyn, Jack
Agency Address:	9031 Eucalyptus Avenue, Ontario, CA 91762-7515
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS, NPDESWW
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 365311001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	10/08/1982
Termination Date:	07/23/2013
Expiration/Review Date:	06/01/2018
Design Flow:	0.0001
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.992964
Longitude:	-117.628072

**D21**  
**SW**  
**1/8-1/4**  
**0.219 mi.**  
**1156 ft.**

**CAL-AERO FIELD / ACADEMY**  
**CHINO, CA**  
**Site 1 of 43 in cluster D**

**ENVIROSTOR** **S107735994**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**638 ft.**

ENVIROSTOR:  
 Facility ID: 80000986  
 Status: Inactive - Needs Evaluation  
 Status Date: 07/01/2005  
 Site Code: Not reported  
 Site Type: Military Evaluation  
 Site Type Detailed: FUDS  
 Acres: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAL-AERO FIELD / ACADEMY (Continued)**

**S107735994**

NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Not reported  
Supervisor: Douglas Bautista  
Division Branch: Cleanup Cypress  
Assembly: 52  
Senate: 20  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: DERA  
Latitude: 33.98111  
Longitude: -117.6394  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CA99799FA37100  
Alias Type: Federal Facility ID  
Alias Name: J09CA7342 & J0CA7341  
Alias Type: INPR  
Alias Name: 80000986  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Inventory Project Report (INPR)  
Completed Date: 05/28/1999  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Inventory Project Report (INPR)  
Completed Date: 05/28/1999  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D22  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**FLITE CRAFTENT**  
**7000 MERRILL**  
**CHINO, CA 91710**  
**Site 2 of 43 in cluster D**

**RCRA-SQG 1000397053**  
**CAD982473696**

**Relative:**  
**Lower**

RCRA-SQG:

**Actual:**  
**639 ft.**

Date form received by agency: 05/23/1988  
Facility name: FLITE CRAFTENT  
Facility address: 7000 MERRILL  
CHINO, CA 91710  
EPA ID: CAD982473696  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 7000 MERRILL  
CHINO, CA 91710  
Contact country: US  
Contact telephone: 714-597-1732  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DAVE LEWIS  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FLITE CRAFTENT (Continued)**

**1000397053**

Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**D23**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**AG-MURRAY, DONALD L.**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

**Site 3 of 43 in cluster D**

**UST** **U003784935**  
**San Bern. Co. Permit** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

UST:

Facility ID: 98045919  
Permitting Agency: SAN BERNARDINO COUNTY  
Latitude: 33.9821897  
Longitude: -117.6322274

Facility ID: 87014446  
Permitting Agency: SAN BERNARDINO COUNTY  
Latitude: 33.9821897  
Longitude: -117.6322274

Facility ID: 95036944  
Permitting Agency: SAN BERNARDINO COUNTY  
Latitude: 33.9821897  
Longitude: -117.6322274

Facility ID: FA0002968  
Permitting Agency: San Bernardino County Fire Department  
Latitude: 33.983001  
Longitude: -117.647363

Facility ID: 87012670  
Permitting Agency: SAN BERNARDINO COUNTY  
Latitude: 33.9821897  
Longitude: -117.6322274

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0000576  
Owner: MURRAY, DONALD L  
Permit Number: PT0011346  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: INACTIVE  
Expiration Date: 05/31/1991

Region: SAN BERNARDINO  
Facility ID: FA0000576  
Owner: MURRAY, DONALD L

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AG-MURRAY, DONALD L. (Continued)**

**U003784935**

Permit Number: PT0003168  
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR  
Facility Status: INACTIVE  
Expiration Date: 05/31/1991

**D24  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.**

**BANNER AIRLINES  
7000 MERRILL AVE #19  
CHINO, CA 91710**

**RCRA-SQG 1000313303  
CAD982474124**

**Site 4 of 43 in cluster D**

**Relative:  
Lower**

RCRA-SQG:

**Actual:  
639 ft.**

Date form received by agency: 05/23/1988  
Facility name: BANNER AIRLINES  
Facility address: 7000 MERRILL AVE #19  
CHINO, CA 91710  
EPA ID: CAD982474124  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 7000 MERRILL AVE #19  
CHINO AIRPORT BOX 30, CA 91710  
Contact country: US  
Contact telephone: 714-597-1886  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: HUNTER LEE  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BANNER AIRLINES (Continued)**

**1000313303**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**D25**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**AERO TRADER**  
**7000 MERRILL AVE HANGER P300**  
**CHINO, CA 91710**

**RCRA-SQG 1000327194**  
**CAD982473910**

**Site 5 of 43 in cluster D**

**Relative:**  
**Lower**

RCRA-SQG:

**Actual:**  
**639 ft.**

Date form received by agency: 05/23/1988  
Facility name: AERO TRADER  
Facility address: 7000 MERRILL AVE HANGER P300  
CHINO, CA 91710  
EPA ID: CAD982473910  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 7000 MERRILL AVE BOX 19  
HGR #P300 CHINO, CA 91710  
Contact country: US  
Contact telephone: 714-597-4020  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**1000327194**

Owner/operator name: SCHOLL CARL  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

D26  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**JET CONNECT SERVICES INC**  
**7000 MERRILL AVE BOX 31**  
**CHINO, CA 91710**  
**Site 6 of 43 in cluster D**

San Bern. Co. Permit S110656329  
N/A

Relative:  
Lower  
Actual:  
639 ft.

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0013010  
Owner: JET CONNECT SERVICES INC  
Permit Number: PT0022847  
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY  
Facility Status: INACTIVE  
Expiration Date: 02/28/2011  
  
Region: SAN BERNARDINO  
Facility ID: FA0013010  
Owner: JET CONNECT SERVICES INC  
Permit Number: PT0022846  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 02/28/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D27  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**YANKS AIR CORPS**  
**7000 MERRILL AVE HGR A-270**  
**CHINO, CA 91710**

San Bern. Co. Permit

S110656313  
N/A

Site 7 of 43 in cluster D

Relative:  
Lower

San Bern. Co. Permit:

Actual:  
639 ft.

Region: SAN BERNARDINO  
Facility ID: FA0007356  
Owner: CHARLES NICHOLS  
Permit Number: PT0008378  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0007356  
Owner: CHARLES NICHOLS  
Permit Number: PT0008379  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

D28  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**FLITE CRAFTENT**  
**7000 MERRILL**  
**CHINO, CA 91710**

RCRA-SQG  
FINDS  
ECHO

1000244243  
CAD982473563

Site 8 of 43 in cluster D

Relative:  
Lower

RCRA-SQG:

Actual:  
639 ft.

Date form received by agency: 05/06/1988  
Facility name: FIGHTER REBUILDERS  
Facility address: 7000 MERRILL  
CHINO, CA 91710  
EPA ID: CAD982473563  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 7000 MERRILL  
CHINO, CA 91710  
Contact country: US  
Contact telephone: 714-597-3514  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: STEVEN HINTON  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FLITE CRAFTENT (Continued)**

**1000244243**

Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**FINDS:**

Registry ID: 110009545947

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002821509

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FLITE CRAFTENT (Continued)**

**1000244243**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000244243  
Registry ID: 110009545947  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009545947>

Envid: 1000244243  
Registry ID: 110002821509  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002821509>

**D29**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**SOUTHERN CALIFORNIA EDISON CHINO AIR OPS**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

**RCRA-LQG 1014915623**  
**CAR000220640**

**Site 9 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

RCRA-LQG:  
Date form received by agency: 07/19/2011  
Facility name: SOUTHERN CALIFORNIA EDISON CHINO AIR OPS  
Facility address: 7000 MERRILL AVE  
MAILBOX 50 BLDG A 290  
CHINO, CA 91710-9097  
EPA ID: CAR000220640  
Mailing address: PO BOX 800  
ROSEMEAD, CA 91770  
Contact: SARA M DUVALL  
Contact address: PO BOX 800  
ROSEMEAD, CA 91770  
Contact country: US  
Contact telephone: 626-462-8714  
Contact email: SARA.DUVALL@SCE.COM  
EPA Region: 09  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHERN CALIFORNIA EDISON CHINO AIR OPS (Continued)**

**1014915623**

Owner/Operator Summary:

Owner/operator name: COUNTY OF SAN BERNARDINO  
Owner/operator address: 7000 MERRILL AVE BOX 1  
CHINO, CA 91710  
Owner/operator country: US  
Owner/operator telephone: 909-597-3910  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: County  
Owner/Operator Type: Owner  
Owner/Op start date: 06/28/1949  
Owner/Op end date: Not reported

Owner/operator name: SOUTHERN CALIFORNIA EDISON  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 10/29/2009  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: 214  
. Waste name: Unspecified solvent mixture

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHERN CALIFORNIA EDISON CHINO AIR OPS (Continued)**

**1014915623**

. Waste code: D018  
. Waste name: BENZENE

Violation Status: No violations found

**D30 CHINO AIRPORT RADIUM DIALS**  
**SW 7000 MERRILL AVE**  
**1/8-1/4 CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft. Site 10 of 43 in cluster D**

**SEMS 1008341524**  
**PRP CAN000906127**

**Relative: Lower** SEMS:  
Site ID: 906127  
**Actual: 639 ft.** EPA ID: CAN000906127  
Cong District: Not reported  
FIPS Code: 6071  
Latitude: Not reported  
Longitude: Not reported  
FF: N  
NPL: Not on the NPL  
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

Region: 9  
Site ID: 906127  
EPA ID: CAN000906127  
Site Name: CHINO AIRPORT RADIUM DIALS  
NPL: N  
FF: N  
OU: 0  
Action Code: RV  
Action Name: RMVL  
SEQ: 1  
Start Date: 2005-03-10 00:00:00  
Finish Date: 10/4/2006  
Qual: C  
Current Action Lead: EPA Perf

Region: 9  
Site ID: 906127  
EPA ID: CAN000906127  
Site Name: CHINO AIRPORT RADIUM DIALS  
NPL: N  
FF: N  
OU: 0  
Action Code: BB  
Action Name: PRP RV  
SEQ: 1  
Start Date: 2005-05-11 00:00:00  
Finish Date: 10/5/2006  
Qual: C  
Current Action Lead: EPA Ovrsght

PRP:  
PRP name: CHINO DEVELOPMENT LEAGUE, INC.  
COUNTY OF SAN BERNARDINO  
COUNTY OF SAN BERNARDINO  
HERITAGE AERO, INC.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CHINO AIRPORT RADIUM DIALS (Continued)

1008341524

JEFFREY PEARSON  
PRESERVATION AVIATION, INC

D31  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

CHINO AIRPORT  
7000 MERRILL AVE  
CHINO, CA 91710  
Site 11 of 43 in cluster D

SWEEPS UST U001568864  
HIST UST N/A

Relative:  
Lower

SWEEPS UST:  
Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 2  
SWRCB Tank Id: 36-000-010545-000001  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: Not reported  
Number Of Tanks: 8

Actual:  
639 ft.

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 3  
SWRCB Tank Id: 36-000-010545-000002  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 4  
SWRCB Tank Id: 36-000-010545-000003  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO AIRPORT (Continued)**

**U001568864**

Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 5  
SWRCB Tank Id: 36-000-010545-000004  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 6  
SWRCB Tank Id: 36-000-010545-000005  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: UNKNOWN  
STG: P  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 7  
SWRCB Tank Id: 36-000-010545-000006  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: UNKNOWN  
STG: P  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO AIRPORT (Continued)**

**U001568864**

Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 8  
SWRCB Tank Id: 36-000-010545-000007  
Tank Status: A  
Capacity: 20000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 10545  
Number: 9  
Board Of Equalization: 44-020280  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 1  
SWRCB Tank Id: 36-000-010545-000008  
Tank Status: A  
Capacity: 1000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: Not reported

**HIST UST:**

File Number: Not reported  
URL: Not reported  
Region: STATE  
Facility ID: 00000010545  
Facility Type: Other  
Other Type: AVIATION  
Contact Name: DAN GROVES, AIRPORT MANAGER  
Telephone: 7145973910  
Owner Name: SAN BERNARDINO COUNTY  
Owner Address: 825 EAST THIRD STREET  
Owner City,St,Zip: SAN BERNARDINO, CA 924150831  
Total Tanks: 0008

Tank Num: 001  
Container Num: 2  
Year Installed: 1965  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 002  
Container Num: 3  
Year Installed: 1965

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO AIRPORT (Continued)**

**U001568864**

Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 003  
Container Num: 4  
Year Installed: 1974  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: 5  
Year Installed: 1974  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 005  
Container Num: 6  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 006  
Container Num: 7  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 007  
Container Num: 8  
Year Installed: 1979  
Tank Capacity: 00020000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 008  
Container Num: 1  
Year Installed: 1967  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CHINO AIRPORT (Continued)**

**U001568864**

Container Construction Thickness: Not reported  
 Leak Detection: Stock Inventor

**D32**  
**SW**  
 1/8-1/4  
 0.224 mi.  
 1185 ft.

**CHINO ROAD YARD**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**  
 Site 12 of 43 in cluster D

**HIST UST**    **U001568880**  
 N/A

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

HIST UST:  
 File Number: 00029D37  
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029D37.pdf>  
 Region: STATE  
 Facility ID: 00000031581  
 Facility Type: Other  
 Other Type: COUNTY  
 Contact Name: BOB HIGNIGHT  
 Telephone: 7145976270  
 Owner Name: COUNTY OF SAN BERNARDINO VEHIC  
 Owner Address: 825 EAST THIRD STREET  
 Owner City,St,Zip: SAN BERNARDINO, CA 92415  
 Total Tanks: 0001

Tank Num: 001  
 Container Num: 0077  
 Year Installed: Not reported  
 Tank Capacity: 00000500  
 Tank Used for: PRODUCT  
 Type of Fuel: WASTE OIL  
 Container Construction Thickness: Not reported  
 Leak Detection: Visual

Tank Num: 001  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 00000500  
 Tank Used for: WASTE  
 Type of Fuel: 5  
 Container Construction Thickness: X  
 Leak Detection: None

Tank Num: 001  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 00000500  
 Tank Used for: WASTE  
 Type of Fuel: 5  
 Container Construction Thickness: X  
 Leak Detection: None

Tank Num: 001  
 Container Num: 0077  
 Year Installed: Not reported  
 Tank Capacity: 00000500  
 Tank Used for: PRODUCT  
 Type of Fuel: WASTE OIL  
 Container Construction Thickness: Not reported  
 Leak Detection: Visual

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CHINO ROAD YARD (Continued)

U001568880

[Click here for Geo Tracker PDF:](#)

D33  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

SO CALIF EDISON AIRCRAFT OPER  
7000 MERRILL AVE HANGAR A ST  
CHINO, CA 91710

RCRA-SQG 1000167621  
FINDS CAD981689854  
ECHO

Site 13 of 43 in cluster D

Relative:  
Lower  
Actual:  
639 ft.

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: SO CALIF EDISON AIRCRAFT OPER  
Facility address: 7000 MERRILL AVE HANGAR A ST  
CHINO, CA 91710  
EPA ID: CAD981689854  
Mailing address: ENVIRON AFFAIRS PO BOX 800  
ROSEMEAD, CA 91770  
Contact: Not reported  
Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: SO CAL EDISON  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SO CALIF EDISON AIRCRAFT OPER (Continued)**

**1000167621**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 11/26/1986  
Site name: SO CALIF EDISON AIRCRAFT OPER  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002753949

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000167621  
Registry ID: 110002753949  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002753949>

**D34**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**BUTTERFIELD AIRPLANE STORE INC**  
**7000 MERRILL HGR #1**  
**CHINO, CA 91710**  
**Site 14 of 43 in cluster D**

**RCRA-SQG** **1000401903**  
**FINDS** **CAD982473936**  
**ECHO**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

RCRA-SQG:  
Date form received by agency: 05/23/1988  
Facility name: BUTTERFIELD AIRPLANE STORE INC  
Facility address: 7000 MERRILL HGR #1  
CHINO, CA 91710  
EPA ID: CAD982473936

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUTTERFIELD AIRPLANE STORE INC (Continued)**

**1000401903**

Contact: ENVIRONMENTAL MANAGER  
Contact address: 7000 MERRILL HGR #1  
BOX 39 CHINO, CA 91710  
Contact country: US  
Contact telephone: 714-597-7666  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: BRYAN KIM  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

EDR ID Number  
 EPA ID Number

---

**BUTTERFIELD AIRPLANE STORE INC (Continued)**

**1000401903**

Used oil transporter: No  
 Violation Status: No violations found

**FINDS:**

Registry ID: 110008278675

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000401903  
 Registry ID: 110008278675  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110008278675>

**D35**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**UNLIMITED AIRCRAFT INC**  
**7000 MERRILL BOX 27 HGR4**  
**CHINO, CA 91710**

**RCRA-SQG** **1000255008**  
**FINDS** **CAD982474066**  
**ECHO**

**Site 15 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

**RCRA-SQG:**  
 Date form received by agency: 05/23/1988  
 Facility name: UNLIMITED AIRCRAFT INC  
 Facility address: 7000 MERRILL BOX 27 HGR4  
 CHINO, CA 91710  
 EPA ID: CAD982474066  
 Mailing address: MERRILL BOX 27 HGR4  
 CHINO, CA 91710  
 Contact: ENVIRONMENTAL MANAGER  
 Contact address: 7000 MERRILL BOX 27 HGR4  
 CHINO, CA 91710  
 Contact country: US  
 Contact telephone: 714-597-2188  
 Contact email: Not reported  
 EPA Region: 09  
 Classification: Small Small Quantity Generator  
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: BRUCE GOESSLING  
 Owner/operator address: NOT REQUIRED  
 NOT REQUIRED, ME 99999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNLIMITED AIRCRAFT INC (Continued)**

**1000255008**

Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110009545965

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNLIMITED AIRCRAFT INC (Continued)**

**1000255008**

ECHO:

Envid: 1000255008  
Registry ID: 110009545965  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009545965>

**D36**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**CHINO AIRPORT NAPALM WASTE**  
**7000 MERRILL AVENUE**  
**CHINO, CA 91710**

**SEMS 1014202332**  
**CAN000908946**

**Site 16 of 43 in cluster D**

**Relative:**  
**Lower**

SEMS:

**Actual:**  
**639 ft.**

Site ID: 908946  
EPA ID: CAN000908946  
Cong District: Not reported  
FIPS Code: 6071  
Latitude: Not reported  
Longitude: Not reported  
FF: N  
NPL: Not on the NPL  
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

Region: 9  
Site ID: 908946  
EPA ID: CAN000908946  
Site Name: CHINO AIRPORT NAPALM WASTE  
NPL: N  
FF: N  
OU: 0  
Action Code: PJ  
Action Name: RP EM REM  
SEQ: 1  
Start Date: 2010-08-26 00:00:00  
Finish Date: 10/26/2010  
Qual: C  
Current Action Lead: EPA Ovrsght

**D37**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**CHINO ROADYARD**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

**HIST UST U001568882**  
**N/A**

**Site 17 of 43 in cluster D**

**Relative:**  
**Lower**

HIST UST:

**Actual:**  
**639 ft.**

File Number: 00029D04  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029D04.pdf>  
Region: STATE  
Facility ID: 00000008707  
Facility Type: Other  
Other Type: COUNTY  
Contact Name: BOB HIGNIGHT  
Telephone: 7145976270  
Owner Name: COUNTY OF SAN BERNARDINO  
Owner Address: 825 EAST THIRD ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROADYARD (Continued)**

**U001568882**

Owner City,St,Zip: SAN BERNARDINO, CA 92415  
Total Tanks: 0003

Tank Num: 001  
Container Num: 0015  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Visual, Stock Inventor

Tank Num: 002  
Container Num: 0016  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Visual, Stock Inventor

Tank Num: 003  
Container Num: 0017  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Visual, Stock Inventor

[Click here for Geo Tracker PDF:](#)

**D38**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**ROGERS AVIATION**  
**7000 MERRILL AVE HGR B130**  
**CHINO, CA 91710**

**San Bern. Co. Permit** **S110656308**  
**N/A**

**Site 18 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0005784  
Owner: ROGERS, DAVID  
Permit Number: PT0008382  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 11/30/2009  
  
Region: SAN BERNARDINO  
Facility ID: FA0005784  
Owner: ROGERS, DAVID  
Permit Number: PT0008383  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 11/30/2008

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D39**  
**SW**  
 1/8-1/4  
 0.224 mi.  
 1185 ft.

**SILVER STATE HELICOPTERS**  
**7000 MERRILL AVE A-230**  
**CHINO, CA 91710**

**San Bern. Co. Permit S108985858**  
**N/A**

**Site 19 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

San Bern. Co. Permit:  
 Region: SAN BERNARDINO  
 Facility ID: FA0011377  
 Owner: ARIOLA, S. JERRY  
 Permit Number: PT0019666  
 Permit Category: HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES  
 Facility Status: INACTIVE  
 Expiration Date: 01/31/2009

Region: SAN BERNARDINO  
 Facility ID: FA0011377  
 Owner: ARIOLA, S. JERRY  
 Permit Number: PT0019665  
 Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)  
 Facility Status: INACTIVE  
 Expiration Date: 01/31/2009

**D40**  
**SW**  
 1/8-1/4  
 0.224 mi.  
 1185 ft.

**SB COUNTY MAINTENANCE YARD**  
**7000 MERRILL AVE.**  
**CHINO, CA**

**AST A100346032**  
**N/A**

**Site 20 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

AST:  
 Certified Unified Program Agencies: San Bernardino  
 Owner: SB COUNTY DEPT PUBLIC WORKS  
 Total Gallons: 9,000  
 CERSID: Not reported  
 Facility ID: Not reported  
 Business Name: Not reported  
 Phone: Not reported  
 Fax: Not reported  
 Mailing Address: Not reported  
 Mailing Address City: Not reported  
 Mailing Address State: Not reported  
 Mailing Address Zip Code: Not reported  
 Operator Name: Not reported  
 Operator Phone: Not reported  
 Owner Phone: Not reported  
 Owner Mail Address: Not reported  
 Owner State: Not reported  
 Owner Zip Code: Not reported  
 Owner Country: Not reported  
 Property Owner Name: Not reported  
 Property Owner Phone: Not reported  
 Property Owner Mailing Address: Not reported  
 Property Owner City: Not reported  
 Property Owner Stat: Not reported  
 Property Owner Zip Code: Not reported  
 Property Owner Country: Not reported  
 EPAID: Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**D41**      **AERO TRADER**      **San Bern. Co. Permit**      **S109254290**  
**SW**      **7000 MERRILL AVE**           **N/A**  
**1/8-1/4**      **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.**      **Site 21 of 43 in cluster D**

**Relative:**      San Bern. Co. Permit:  
**Lower**      Region:      SAN BERNARDINO  
Facility ID:      FA0000315  
**Actual:**      Owner:      S&R AVIATION SERVICES, INC.  
**639 ft.**      Permit Number:      PT0004347  
Permit Category:      SMALL QUANTITY GENERATOR  
Facility Status:      ACTIVE  
Expiration Date:      04/30/2019

Region:      SAN BERNARDINO  
Facility ID:      FA0000315  
Owner:      S&R AVIATION SERVICES, INC.  
Permit Number:      PT0004346  
Permit Category:      HAZARDOUS MATERIALS 11-30 CHEMICALS  
Facility Status:      ACTIVE  
Expiration Date:      04/30/2019

**D42**      **AIRCRAFTSMAN**      **San Bern. Co. Permit**      **S104763384**  
**SW**      **7000 MERRILL HGR AVE HGR A-245 BOX 100**           **N/A**  
**1/8-1/4**      **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.**      **Site 22 of 43 in cluster D**

**Relative:**      San Bern. Co. Permit:  
**Lower**      Region:      SAN BERNARDINO  
Facility ID:      FA0000752  
**Actual:**      Owner:      NAAZMA MANTARA  
**639 ft.**      Permit Number:      PT0007880  
Permit Category:      SPECIAL GENERATOR  
Facility Status:      INACTIVE  
Expiration Date:      09/30/2008

Region:      SAN BERNARDINO  
Facility ID:      FA0000752  
Owner:      NAAZMA MANTARA  
Permit Number:      PT0015147  
Permit Category:      SPECIAL HANDLER  
Facility Status:      INACTIVE  
Expiration Date:      09/30/2008

**D43**      **VAN'S MOBILE TRUCK SERVICE, INC.**      **CPS-SLIC**      **S103956204**  
**SW**      **7000 MERRILL AVE**      **San Bern. Co. Permit**      **N/A**  
**1/8-1/4**      **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.**      **Site 23 of 43 in cluster D**

**Relative:**      CPS-SLIC:  
**Lower**      Region:      STATE  
**Actual:**      **Facility Status:**      **Completed - Case Closed**  
**639 ft.**      Status Date:      03/17/2011  
Global Id:      T10000002398  
Lead Agency:      SANTA ANA RWQCB (REGION 8)

MAP FINDINGS

**VAN'S MOBILE TRUCK SERVICE, INC. (Continued)**

**S103956204**

Lead Agency Case Number: Latitude: Longitude: Case Type: Case Worker: Local Agency: RB Case Number: File Location: Potential Media Affected: Potential Contaminants of Concern: Site History:	Not reported 33.9771752582545 -117.647438049316 Cleanup Program Site PAH Not reported Not reported Regional Board Soil Benzene, Toluene, Xylene, Other Petroleum <p>In the afternoon of July 22, 2010, three buried drums were discovered during trenching for installation of a storm drain pipeline for a new facility for SCE. Additional drums were discovered during the response activities. By sunset, eight buried drums had been removed from the excavation. The drums did not have lids and contained soil that had been placed on top of other materials. The contents of the drums were field tested using a HazCat chemical identification kit, and determined to be a non-explosive, flammable, non-corrosive, organic resin-type material. The eight drums were placed in a roll-off bin. Two more drums were visible in the excavation, but were left in place due to limited remaining daylight. Samples were collected of the soil, the material in the drums, and the liquid in one of the drums. The samples were delivered to Microbac Laboratory in Riverside, and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH) carbon range, polynuclear aromatic hydrocarbons (PAHs), CAM17 metals, and flashpoint (only the liquid sample). The analytical results indicated that high concentrations of benzene were present in all of the samples. Also detected were toluene, ethylbenzene, xylene, styrene, 1,2,4-trimethylbenzene, and naphthalene. On July 28, 2010, a geophysical survey was conducted in an effort to locate any additional buried drums. During the survey, several areas to the east and west of the original excavation were marked as possible targets for further investigation. Excavation and removal of additional drums was conducted between August 16 and August 25, 2010. A total of 51 drums, several aluminum canisters and pieces of wood were removed from the excavation and placed in roll-off-bins. Excavated soil was stockpiled and covered with plastic sheeting. Additional soil was excavated from beneath the drums, placed in stockpiles and covered. The resulting excavation measured approximately 100 feet from east to west and 20 feet from north to south. The bottom of the excavation varied from 10 to 15 feet below ground surface. Patricia Hannon of Board Staff observed the collection of the final confirmation soil samples on August 26, 2010. Staff from the U.S. EPA and the California Department of Toxic Substances Control were also present. The samples were submitted to a California certified laboratory for analysis as per the TCRAP. The analytical results for the soil samples showed only very low concentrations of benzene (&lt;1 to 1.28 micrograms/kilogram (a%g/kg)), ethylbenzene (&lt;1 to 2.24 a%g/kg), xylene (&lt;1 to 28.8 a%g/kg), 1,3,5 trimethylbenzene (&lt;5 to 55.4 a%g/kg), naphthalene (&lt;5 to 10.9 a%g/kg), TPH gasoline range (&lt;1 to 4.71 milligrams/kilogram (mg/kg)), TPH diesel range &lt;1 to 123 mg/kg, and TPH motor oil range (&lt;1 to 355 mg/kg).</p>
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Click here to access the California GeoTracker records for this facility:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VAN'S MOBILE TRUCK SERVICE, INC. (Continued)**

**S103956204**

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0010632  
Owner: VAN'S MOBILE TRUCK SERVICE INC  
Permit Number: PT0018102  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 08/31/2010

Region: SAN BERNARDINO  
Facility ID: FA0010632  
Owner: VAN'S MOBILE TRUCK SERVICE INC  
Permit Number: PT0018103  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 08/31/2010

Region: SAN BERNARDINO  
Facility ID: FA0000826  
Owner: AERO RESTORATION INC  
Permit Number: PT0008391  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 11/30/2001

Region: SAN BERNARDINO  
Facility ID: FA0000826  
Owner: AERO RESTORATION INC  
Permit Number: PT0008390  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 11/30/2001

**D44**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**TOM KING AERIAL**  
**7000 MERRILL AVE BOX 3**  
**CHINO, CA 91710**

**San Bern. Co. Permit S104763314**  
**N/A**

**Site 24 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0000313  
Owner: KING, VIRGINIA  
Permit Number: PT0008392  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 11/30/2007

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>D45</b> <b>SW</b> <b>1/8-1/4</b> <b>0.224 mi.</b> <b>1185 ft.</b>	<b>CENTURY AIRCRAFT PAINTING</b> <b>7000 MERRILL AVE</b> <b>CHINO, CA 91710</b>  <b>Site 25 of 43 in cluster D</b>	<b>San Bern. Co. Permit</b>	<b>S104764508</b> <b>N/A</b>
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<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>639 ft.</b>	San Bern. Co. Permit: Region: SAN BERNARDINO Facility ID: FA0001669 Owner: VOGEL, EVELINE & MICHAEL Permit Number: PT0001757 Permit Category: SMALL QUANTITY GENERATOR Facility Status: ACTIVE Expiration Date: 11/30/2018  Region: SAN BERNARDINO Facility ID: FA0001669 Owner: VOGEL, EVELINE & MICHAEL Permit Number: PT0001756 Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS Facility Status: ACTIVE Expiration Date: 11/30/2018
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<b>D46</b> <b>SW</b> <b>1/8-1/4</b> <b>0.224 mi.</b> <b>1185 ft.</b>	<b>NU VISTA AVIATION</b> <b>7000 MERRILL AVE BLDG A-230 BOX 23</b> <b>CHINO, CA 91710</b>  <b>Site 26 of 43 in cluster D</b>	<b>San Bern. Co. Permit</b>	<b>S109254406</b> <b>N/A</b>
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<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>639 ft.</b>	San Bern. Co. Permit: Region: SAN BERNARDINO Facility ID: FA0011767 Owner: GAPPMAYER, REED Permit Number: PT0020447 Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR Facility Status: INACTIVE Expiration Date: 08/31/2009
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<b>D47</b> <b>SW</b> <b>1/8-1/4</b> <b>0.224 mi.</b> <b>1185 ft.</b>	<b>SBC/CHINO AIRPORT</b> <b>7000 MERRILL AVE BLDG B-350</b> <b>CHINO, CA 91710</b>  <b>Site 27 of 43 in cluster D</b>	<b>San Bern. Co. Permit</b>	<b>S107448049</b> <b>N/A</b>
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<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>639 ft.</b>	San Bern. Co. Permit: Region: SAN BERNARDINO Facility ID: FA0007715 Owner: SB COUNTY DEPT OF AIRPORTS Permit Number: PT0013287 Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK) Facility Status: INACTIVE Expiration Date: 12/31/2015  Region: SAN BERNARDINO Facility ID: FA0007715 Owner: SB COUNTY DEPT OF AIRPORTS Permit Number: PT0013286 Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR
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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SBC/CHINO AIRPORT (Continued)**

**S107448049**

Facility Status: INACTIVE  
Expiration Date: 12/31/2014

Region: SAN BERNARDINO  
Facility ID: FA0007715  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0016136  
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR  
Facility Status: INACTIVE  
Expiration Date: 12/31/2014

Region: SAN BERNARDINO  
Facility ID: FA0012706  
Owner: THE CHARLESTON GROUP/ROBERT L. CASHMAN  
Permit Number: PT0022163  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 09/30/2011

Region: SAN BERNARDINO  
Facility ID: FA0012706  
Owner: THE CHARLESTON GROUP/ROBERT L. CASHMAN  
Permit Number: PT0022164  
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS  
Facility Status: INACTIVE  
Expiration Date: 09/30/2011

**D48**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**CHINO AVIATION**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

**San Bern. Co. Permit S108087254**  
**N/A**

**Site 28 of 43 in cluster D**

**Relative:**  
**Lower**

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0010623  
Owner: CENDEJAS, AGUSTIN  
Permit Number: PT0018065  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 09/30/2010

**Actual:**  
**639 ft.**

Region: SAN BERNARDINO  
Facility ID: FA0010623  
Owner: CENDEJAS, AGUSTIN  
Permit Number: PT0018064  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 09/30/2010



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D49**      **CHAMPIONSHIP AVIATION MAINT**      **AST**      **S108087253**  
**SW**      **7000 MERRILL AVE HGR A385**           **N/A**  
**1/8-1/4**      **CHINO, CA**  
**0.224 mi.**  
**1185 ft.**      **Site 29 of 43 in cluster D**

**Relative:**      **AST:**  
**Lower**      Certified Unified Program Agencies: San Bernardino  
                  Owner: CHAMPIONSHIP AVIATION MNT, INC  
**Actual:**      Total Gallons: 19,050  
**639 ft.**      CERSID: Not reported  
                  Facility ID: Not reported  
                  Business Name: Not reported  
                  Phone: Not reported  
                  Fax: Not reported  
                  Mailing Address: Not reported  
                  Mailing Address City: Not reported  
                  Mailing Address State: Not reported  
                  Mailing Address Zip Code: Not reported  
                  Operator Name: Not reported  
                  Operator Phone: Not reported  
                  Owner Phone: Not reported  
                  Owner Mail Address: Not reported  
                  Owner State: Not reported  
                  Owner Zip Code: Not reported  
                  Owner Country: Not reported  
                  Property Owner Name: Not reported  
                  Property Owner Phone: Not reported  
                  Property Owner Mailing Address: Not reported  
                  Property Owner City: Not reported  
                  Property Owner Stat : Not reported  
                  Property Owner Zip Code: Not reported  
                  Property Owner Country: Not reported  
                  EPAID: Not reported

**D50**      **MILITARY AIRCRAFT RESTORATION**      **San Bern. Co. Permit**      **S106910992**  
**SW**      **7000 MERRILL AVE A485**           **N/A**  
**1/8-1/4**      **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.**      **Site 30 of 43 in cluster D**

**Relative:**      San Bern. Co. Permit:  
**Lower**      Region: SAN BERNARDINO  
                  Facility ID: FA0004729  
**Actual:**      Owner: MILITARY AIRCRAFT RESTORATION  
**639 ft.**      Permit Number: PT0008398  
                  Permit Category: SPECIAL GENERATOR  
                  Facility Status: INACTIVE  
                  Expiration Date: 11/30/2003  
  
                  Region: SAN BERNARDINO  
                  Facility ID: FA0004729  
                  Owner: MILITARY AIRCRAFT RESTORATION  
                  Permit Number: PT0008397  
                  Permit Category: SPECIAL HANDLER  
                  Facility Status: INACTIVE  
                  Expiration Date: 11/30/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D51  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**SAN BDNO COUNTY/CHINO AIRPORT**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

**San Bern. Co. Permit**    **S109254297**  
**N/A**

**Site 31 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0002372  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0003549  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 09/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002372  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0003548  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 09/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002372  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0011180  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: INACTIVE  
Expiration Date: 09/30/2007

Region: SAN BERNARDINO  
Facility ID: FA0002372  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0011181  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: INACTIVE  
Expiration Date: 09/30/2007

Region: SAN BERNARDINO  
Facility ID: FA0002372  
Owner: SB COUNTY DEPT OF AIRPORTS  
Permit Number: PT0011182  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: INACTIVE  
Expiration Date: 09/30/2007

D52  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**SOUTHERN CALIFORNIA EDISON: AIR OPERATIONS - CHINO**  
**7000 MERRILL AVE, BOX 50, BLDG. A-290**  
**CHINO, CA 91710**

**AST**    **A100424710**  
**N/A**

**Site 32 of 43 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

AST:

Certified Unified Program Agencies: Not reported  
Owner: Southern California Edison  
Total Gallons: Not reported  
CERSID: 10148665  
Facility ID: FA0014110  
Business Name: Southern California Edison, Operations Support Business Unit (OSBU)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SOUTHERN CALIFORNIA EDISON: AIR OPERATIONS - CHINO AIRPORT (Continued)**

**A100424710**

Phone: 909-974-4691  
 Fax: 909-974-4686  
 Mailing Address: P.O. Box 800 (Attn: CEH&S Compliance - MOB)  
 Mailing Address City: Rosemead  
 Mailing Address State: CA  
 Mailing Address Zip Code: 91770  
 Operator Name: Southern California Edison Co. - Aircraft Operations  
 Operator Phone: 909-974-4691  
 Owner Phone: (626) 302-1212  
 Owner Mail Address: P.O. Box 800 (Attn: CEH&S Compliance - MOB)  
 Owner State: CA  
 Owner Zip Code: 91770  
 Owner Country: United States  
 Property Owner Name: Southern California Edison  
 Property Owner Phone: (626) 302-1212  
 Property Owner Mailing Address: P.O. Box 800 (Attn: CEH&S Compliance - MOB)  
 Property Owner City: Rosemead  
 Property Owner Stat : CA  
 Property Owner Zip Code: 91770  
 Property Owner Country: United States  
 EPAID: CAR000220640

**D53**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**SQUARE ONE AVIATION**  
**7000 MERRILL AVE BX 68**  
**CHINO, CA 91710**  
**Site 33 of 43 in cluster D**

**San Bern. Co. Permit**

**S106911107**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

San Bern. Co. Permit:  
 Region: SAN BERNARDINO  
 Facility ID: FA0006363  
 Owner: WARD, ELMER & BRET  
 Permit Number: PT0008384  
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)  
 Facility Status: INACTIVE  
 Expiration Date: 07/31/2005  
  
 Region: SAN BERNARDINO  
 Facility ID: FA0006363  
 Owner: WARD, ELMER & BRET  
 Permit Number: PT0008385  
 Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES  
 Facility Status: INACTIVE  
 Expiration Date: 07/31/2005

**D54**  
**SW**  
**1/8-1/4**  
**0.224 mi.**  
**1185 ft.**

**CHINO ROAD YARD**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**  
**Site 34 of 43 in cluster D**

**AST**  
**SWEEPS UST**  
**HIST UST**  
**CA FID UST**  
**Cortese**  
**EMI**  
**San Bern. Co. Permit**

**S101618757**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**639 ft.**

AST:  
 Certified Unified Program Agencies: Not reported  
 Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROAD YARD (Continued)**

**S101618757**

Total Gallons: Not reported  
CERSID: 10037797  
Facility ID: FA0002277  
Business Name: FLEET MANAGEMENT  
Phone: (909) 597-3910  
Fax: (909) 387-8001  
Mailing Address: 7000 E. MERRILL AVE BOX 4  
Mailing Address City: CHINO  
Mailing Address State: CA  
Mailing Address Zip Code: 91710  
Operator Name: Not reported  
Operator Phone: Not reported  
Owner Phone: (909) 387-7855  
Owner Mail Address: 210 N LENA RD  
Owner State: CA  
Owner Zip Code: Not reported  
Owner Country: United States  
Property Owner Name: Not reported  
Property Owner Phone: Not reported  
Property Owner Mailing Address: Not reported  
Property Owner City: Not reported  
Property Owner Stat : Not reported  
Property Owner Zip Code: Not reported  
Property Owner Country: Not reported  
EPAID: Not reported

**SWEEPS UST:**

Status: Active  
Comp Number: 8707  
Number: 5  
Board Of Equalization: 44-020093  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 15  
SWRCB Tank Id: 36-000-008707-000001  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 5

Status: Active  
Comp Number: 8707  
Number: 5  
Board Of Equalization: 44-020093  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 16  
SWRCB Tank Id: 36-000-008707-000002  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROAD YARD (Continued)**

**S101618757**

STG: P  
Content: LEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 8707  
Number: 5  
Board Of Equalization: 44-020093  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: 17  
SWRCB Tank Id: 36-000-008707-000003  
Tank Status: A  
Capacity: 10000  
Active Date: 07-01-85  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 8707  
Number: 5  
Board Of Equalization: 44-020093  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: AVGAS1  
SWRCB Tank Id: 36-000-008707-000004  
Tank Status: A  
Capacity: 12000  
Active Date: 06-29-94  
Tank Use: M.V. FUEL  
STG: P  
Content: AVIA. GAS  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 8707  
Number: 5  
Board Of Equalization: 44-020093  
Referral Date: 03-24-92  
Action Date: 03-24-92  
Created Date: 02-29-88  
Owner Tank Id: JET-A1  
SWRCB Tank Id: 36-000-008707-000005  
Tank Status: A  
Capacity: 12000  
Active Date: 06-29-94  
Tank Use: M.V. FUEL  
STG: P  
Content: JET FUEL  
Number Of Tanks: Not reported

HIST UST:

File Number: 0002A5A7

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROAD YARD (Continued)**

**S101618757**

URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A5A7.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported  
  
Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID: 36002274  
Regulated By: UTNKA  
Regulated ID: 00008707  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: Not reported  
Mail To: Not reported  
Mailing Address: 825 E 003RD ST  
Mailing Address 2: Not reported  
Mailing City,St,Zip: CHINO 91710  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

Facility ID: 36002274  
Regulated By: UTNKA  
Regulated ID: 00010545  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: Not reported  
Mail To: Not reported  
Mailing Address: 7000 MERRILL AVENUE BOX  
Mailing Address 2: Not reported  
Mailing City,St,Zip: CHINO 91710  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROAD YARD (Continued)**

**S101618757**

Comments: Not reported  
Status: Active

**CORTESE:**

Region: CORTESE  
Envirostor Id: Not reported  
Site/Facility Type: Not reported  
Cleanup Status: Not reported  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: CORTESE  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Cease Desist Orders & Cleanup Abatement Orders

**EMI:**

Year: 2002  
County Code: 36  
Air Basin: SC  
Facility ID: 101972  
Air District Name: SC  
SIC Code: 7699  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

Year: 2003  
County Code: 36  
Air Basin: SC  
Facility ID: 101972  
Air District Name: SC  
SIC Code: 7699  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINO ROAD YARD (Continued)**

**S101618757**

SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2004  
County Code: 36  
Air Basin: SC  
Facility ID: 101972  
Air District Name: SC  
SIC Code: 7699  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.07122  
Reactive Organic Gases Tons/Yr: 1.01  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.13  
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.09

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0002277  
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT  
Permit Number: PT0003396  
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY  
Facility Status: ACTIVE  
Expiration Date: 09/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002277  
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT  
Permit Number: PT0003384  
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL  
Facility Status: ACTIVE  
Expiration Date: 09/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002277  
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT  
Permit Number: PT0018682  
Permit Category: EPCRA FACILITY  
Facility Status: INACTIVE  
Expiration Date: 09/30/2013

Region: SAN BERNARDINO  
Facility ID: FA0002277  
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT  
Permit Number: PT0014399  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 09/30/2008



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D55  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**ENCORE JET CENTER**  
**7000 MERRILL AVE A-235**  
**CHINO, CA 91710**

San Bern. Co. Permit

S110071569  
N/A

Site 35 of 43 in cluster D

Relative:  
Lower  
Actual:  
639 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0002968  
Owner: ENCORE JET CENTER, LLC  
Permit Number: PT0010356  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002968  
Owner: ENCORE JET CENTER, LLC  
Permit Number: PT0005296  
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0002968  
Owner: ENCORE JET CENTER, LLC  
Permit Number: PT0005297  
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

D56  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**CORONA AERO REFINISHERS**  
**7000 MERRILL AVE 24**  
**CHINO, CA 91710**

San Bern. Co. Permit

S106910777  
N/A

Site 36 of 43 in cluster D

Relative:  
Lower  
Actual:  
639 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0002505  
Owner: HATFIELD, JIM & BRASS, PATRICK  
Permit Number: PT0008405  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 07/31/2004

Region: SAN BERNARDINO  
Facility ID: FA0002505  
Owner: HATFIELD, JIM & BRASS, PATRICK  
Permit Number: PT0008406  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 07/31/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D57  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**CAL AERO JET CENTER**  
**7000 MERRILL AVE B-350**  
**CHINO, CA 91710**

San Bern. Co. Permit

S104771510  
N/A

Site 37 of 43 in cluster D

Relative:  
Lower

San Bern. Co. Permit:

Actual:  
639 ft.

Region: SAN BERNARDINO  
Facility ID: FA0006862  
Owner: OLDRIDGE, PHILLIP  
Permit Number: PT0010027  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 11/30/2006

Region: SAN BERNARDINO  
Facility ID: FA0006862  
Owner: OLDRIDGE, PHILLIP  
Permit Number: PT0010026  
Permit Category: SPECIAL HANDLER  
Facility Status: INACTIVE  
Expiration Date: 11/30/2005

Region: SAN BERNARDINO  
Facility ID: FA0006862  
Owner: OLDRIDGE, PHILLIP  
Permit Number: PT0010480  
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)  
Facility Status: INACTIVE  
Expiration Date: 11/30/2005

D58  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.

**CHAMPION JETS INC**  
**7000 MERRILL AVE**  
**CHINO, CA 91710**

San Bern. Co. Permit

S109849235  
N/A

Site 38 of 43 in cluster D

Relative:  
Lower

San Bern. Co. Permit:

Actual:  
639 ft.

Region: SAN BERNARDINO  
Facility ID: FA0010634  
Owner: CHAMPIONSHIP JETS MNT, INC  
Permit Number: PT0018108  
Permit Category: SPECIAL GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 10/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0010634  
Owner: CHAMPIONSHIP JETS MNT, INC  
Permit Number: PT0018110  
Permit Category: EPCRA FACILITY  
Facility Status: INACTIVE  
Expiration Date: 10/31/2009

Region: SAN BERNARDINO  
Facility ID: FA0010634  
Owner: CHAMPIONSHIP JETS MNT, INC  
Permit Number: PT0018107  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHAMPION JETS INC (Continued)**

**S109849235**

Expiration Date: 10/31/2008  
  
Region: SAN BERNARDINO  
Facility ID: FA0010634  
Owner: CHAMPIONSHIP JETS MNT, INC  
Permit Number: PT0018109  
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)  
Facility Status: INACTIVE  
Expiration Date: 10/31/2008

**D59  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.**

**AIRCRAFTSMAN, INC  
7000 MERRILL AVE HNGR B350  
CHINO, CA 91710  
  
Site 39 of 43 in cluster D**

**San Bern. Co. Permit S109849294  
N/A**

**Relative:  
Lower  
Actual:  
639 ft.**

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0012605  
Owner: WILSON, MARK  
Permit Number: PT0022001  
Permit Category: LARGE QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 08/31/2010  
  
Region: SAN BERNARDINO  
Facility ID: FA0012605  
Owner: WILSON, MARK  
Permit Number: PT0022000  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: INACTIVE  
Expiration Date: 08/31/2010

**D60  
SW  
1/8-1/4  
0.224 mi.  
1185 ft.**

**NORTH ORANGE AVIATION  
7000 MERRILL AVE HGR 3  
CHINO, CA 91710  
  
Site 40 of 43 in cluster D**

**San Bern. Co. Permit S110656305  
N/A**

**Relative:  
Lower  
Actual:  
639 ft.**

San Bern. Co. Permit:  
Region: SAN BERNARDINO  
Facility ID: FA0004997  
Owner: REID, KEITH  
Permit Number: PT0008396  
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR  
Facility Status: INACTIVE  
Expiration Date: 07/31/2002

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D61** **INLAND VALLEY AVIATION INC** **San Bern. Co. Permit** **S109849349**  
**SW** **7000 MERRILL AVE UNIT A335** **N/A**  
**1/8-1/4** **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.** **Site 41 of 43 in cluster D**

**Relative:** San Bern. Co. Permit:  
**Lower** Region: SAN BERNARDINO  
 Facility ID: FA0012712  
**Actual:** Owner: INLAND VALLEY AVIATION INC  
**639 ft.** Permit Number: PT0022179  
 Permit Category: SMALL QUANTITY GENERATOR  
 Facility Status: ACTIVE  
 Expiration Date: 09/30/2018  
  
 Region: SAN BERNARDINO  
 Facility ID: FA0012712  
 Owner: INLAND VALLEY AVIATION INC  
 Permit Number: PT0022180  
 Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS  
 Facility Status: ACTIVE  
 Expiration Date: 09/30/2018

**D62** **FAA CNO ATCT** **San Bern. Co. Permit** **S104766172**  
**SW** **7000 MERRILL AVE** **N/A**  
**1/8-1/4** **CHINO, CA 91710**  
**0.224 mi.**  
**1185 ft.** **Site 42 of 43 in cluster D**

**Relative:** San Bern. Co. Permit:  
**Lower** Region: SAN BERNARDINO  
 Facility ID: FA0003024  
**Actual:** Owner: Federal Aviation Administration  
**639 ft.** Permit Number: PT0008401  
 Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL  
 Facility Status: ACTIVE  
 Expiration Date: 11/30/2018

**D63** **AERO TRADER** **CPS-SLIC** **S103948886**  
**SW** **7000 MERRILL AV, #19** **EMI** **N/A**  
**1/8-1/4** **CHINO, CA 91710** **HAZNET**  
**0.224 mi.** **San Bern. Co. Permit**  
**1185 ft.** **Site 43 of 43 in cluster D**

**Relative:** CPS-SLIC:  
**Lower** Region: STATE  
**Actual:** **Facility Status:** **Open - Remediation**  
**639 ft.** Status Date: 05/16/2017  
 Global Id: SL208634049  
 Lead Agency: SANTA ANA RWQCB (REGION 8)  
 Lead Agency Case Number: Not reported  
 Latitude: 33.9804492902876  
 Longitude: -117.645871639252  
 Case Type: Cleanup Program Site  
 Case Worker: PAH  
 Local Agency: Not reported  
 RB Case Number: 2086300  
 File Location: Regional Board

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: 1,2,3-Trichloropropane (TCP), Dichloroethene (DCE), Trichloroethylene (TCE)  
Site History: The primary chemicals of concern in the groundwater at the site are trichloroethene, 1,2,3-trichloropropane, cis-1,2-dichloroethene, 1,2-dichloroethane, and 1,1-dichloroethene. Offsite plume characterization field activities were initiated in 2007. Twelve cone penetrometer testing (CPT)/direct push borings were advanced to investigate the below grade lithology, and to determine the horizontal and vertical extent of the VOCs in the groundwater in the vicinity of the site. Eleven additional direct push borings were also advanced, and water samples were collected. The soils encountered consisted of silts, sands, gravels and some clay lenses. The depth to groundwater ranged from 25 to 50 feet below ground surface (bgs), with the depth to water decreasing toward the south. Groundwater was detected at approximately 50 feet bgs at the Kimball Avenue boring location, approximately 30 to 45 feet bgs at the Bickmore Avenue boring locations and approximately 25 to 35 feet bgs at the Pine Avenue boring locations. The local groundwater flow direction is toward the southeast. Based on the results of the investigation in 2007, nine nested groundwater monitoring wells were installed in 2008 at three locations along the axis of the plume. Three wells were installed at each location to monitor the shallow (approximately 35 to 96 feet bgs), intermediate (approximately 91 to 146 feet bgs) and deep (approximately 206 to 309 feet bgs) groundwater zones.

[Click here to access the California GeoTracker records for this facility:](#)

EMI:

Year: 1987  
County Code: 36  
Air Basin: SC  
Facility ID: 45213  
Air District Name: SC  
SIC Code: 5199  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 2  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

Year: 1990  
County Code: 36  
Air Basin: SC  
Facility ID: 45213  
Air District Name: SC  
SIC Code: 1711  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1990  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1993  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Year: 1996  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 1997  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1998  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1999  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2000  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2001  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1  
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2002  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2003  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2004  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.4188  
Reactive Organic Gases Tons/Yr: 0.77  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.325  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.28

Year: 2005  
County Code: 36  
Air Basin: SC  
Facility ID: 55101  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .9856  
Reactive Organic Gases Tons/Yr: .67271826  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: .1  
Part. Matter 10 Micrometers and Smlr Tons/Yr:.086

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

HAZNET:

envid: S103948886  
Year: 2015  
GEPaid: CAC002843070  
Contact: MIKE RIGGS  
Telephone: 7146941930  
Mailing Name: Not reported  
Mailing Address: PO BOX 190  
Mailing City,St,Zip: PLACENTIA, CA 928710190  
Gen County: San Bernardino  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Waste oil and mixed oil  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Tons: 0.8968  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

envid: S103948886  
Year: 2015  
GEPaid: CAC002806862  
Contact: SHILOH JARAMILLO  
Telephone: 7142796184  
Mailing Name: Not reported  
Mailing Address: 8191 E KAISER BLVD  
Mailing City,St,Zip: ANAHEIM, CA 928082214  
Gen County: San Bernardino  
TSD EPA ID: CAD980675276  
TSD County: Kern  
Waste Category: Other organic solids  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To  
Include On-Site Treatment And/Or Stabilization)  
Tons: 0.2  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

envid: S103948886  
Year: 2015  
GEPaid: CAC002806862  
Contact: SHILOH JARAMILLO  
Telephone: 7142796184  
Mailing Name: Not reported  
Mailing Address: 8191 E KAISER BLVD  
Mailing City,St,Zip: ANAHEIM, CA 928082214  
Gen County: San Bernardino  
TSD EPA ID: NED981723513  
TSD County: 99  
Waste Category: Other organic solids  
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel  
Tons: 0.075  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

envid: S103948886  
Year: 2015  
GEPaid: CAC002806862  
Contact: SHILOH JARAMILLO  
Telephone: 7142796184  
Mailing Name: Not reported  
Mailing Address: 8191 E KAISER BLVD  
Mailing City,St,Zip: ANAHEIM, CA 928082214  
Gen County: San Bernardino  
TSD EPA ID: CAD980675276  
TSD County: Kern  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Tons: 0.1  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

envid: S103948886  
Year: 2015  
GEPaid: CAC002806862  
Contact: SHILOH JARAMILLO  
Telephone: 7142796184  
Mailing Name: Not reported  
Mailing Address: 8191 E KAISER BLVD  
Mailing City,St,Zip: ANAHEIM, CA 928082214  
Gen County: San Bernardino  
TSD EPA ID: CAD044429835  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Tons: 0.2  
Cat Decode: Not reported  
Method Decode: Not reported  
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access  
3 additional CA\_HAZNET: record(s) in the EDR Site Report.

San Bern. Co. Permit:

Region: SAN BERNARDINO  
Facility ID: FA0017228  
Owner: JOHN SPRUCE  
Permit Number: PT0036683  
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 12/31/2018

Region: SAN BERNARDINO  
Facility ID: FA0017228  
Owner: JOHN SPRUCE  
Permit Number: PT0036682  
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 12/31/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Region: SAN BERNARDINO  
Facility ID: FA0003212  
Owner: HINTON, STEVE  
Permit Number: PT0008403  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0003212  
Owner: HINTON, STEVE  
Permit Number: PT0008402  
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 11/30/2018

Region: SAN BERNARDINO  
Facility ID: FA0017000  
Owner: Richard Considine  
Permit Number: PT0037350  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 10/31/2018

Region: SAN BERNARDINO  
Facility ID: FA0017000  
Owner: Richard Considine  
Permit Number: PT0036343  
Permit Category: APSA 10,001-100,000 GAL FAC CAPACITY  
Facility Status: ACTIVE  
Expiration Date: 10/31/2018

Region: SAN BERNARDINO  
Facility ID: FA0017000  
Owner: Richard Considine  
Permit Number: PT0036342  
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 10/31/2018

Region: SAN BERNARDINO  
Facility ID: FA0012994  
Owner: AERO SUPPORT GROUPE  
Permit Number: PT0022816  
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES  
Facility Status: INACTIVE  
Expiration Date: 01/31/2011

Region: SAN BERNARDINO  
Facility ID: FA0012994  
Owner: AERO SUPPORT GROUPE  
Permit Number: PT0022817  
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY  
Facility Status: INACTIVE  
Expiration Date: 01/31/2011

Region: SAN BERNARDINO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AERO TRADER (Continued)**

**S103948886**

Facility ID: FA0007572  
Owner: JERRY STUEVE SR  
Permit Number: PT0013001  
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS  
Facility Status: ACTIVE  
Expiration Date: 01/31/2019

Region: SAN BERNARDINO  
Facility ID: FA0007572  
Owner: JERRY STUEVE SR  
Permit Number: PT0018137  
Permit Category: SMALL QUANTITY GENERATOR  
Facility Status: ACTIVE  
Expiration Date: 01/31/2019

Region: SAN BERNARDINO  
Facility ID: FA0007572  
Owner: JERRY STUEVE SR  
Permit Number: PT0018405  
Permit Category: EPCRA FACILITY  
Facility Status: INACTIVE  
Expiration Date: 01/31/2014

**64**  
**SSW**  
**1/2-1**  
**0.577 mi.**  
**3045 ft.**

**CAL-AERO AIRPORT**  
**CHINO, CA**

**ENVIROSTOR** **S107735993**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**625 ft.**

ENVIROSTOR:  
Facility ID: 80000207  
Status: Inactive - Needs Evaluation  
Status Date: 07/01/2005  
Site Code: Not reported  
Site Type: Military Evaluation  
Site Type Detailed: FUDS  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Not reported  
Supervisor: Douglas Bautista  
Division Branch: Cleanup Cypress  
Assembly: 52  
Senate: 20  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: DERA  
Latitude: 33.975  
Longitude: -117.6383  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CA99799F538900  
Alias Type: Federal Facility ID

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAL-AERO AIRPORT (Continued)**

**S107735993**

Alias Name: J09CA0264  
Alias Type: INPR  
Alias Name: 80000207  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Count: 7 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ONTARIO	S107533176		3500 BLOCK OF EUCALYPTUS	91761	CDL
ONTARIO	S107538085		CLEVELAND, NORTH OF EUCALYPTUS		CDL
ONTARIO	1009508586	SO CAL GAS/ONTARIO MGP	CORNER OF CAMPUS, MARTLAND, MO	91761	EDR MGP
ONTARIO	S107538467		EUCALYPTUS ST/SUMNER ST		CDL
ONTARIO	S107538463		EUCALYPTUS AND MILLIKEN ST	91762	CDL
ONTARIO	S107538468		EUCALYPTUS W OF BON VIEW	91761	CDL
ONTARIO	S107539821		ON EUCALYPTUS, 3/4 MI E OF ARC	91762	CDL

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 29

Source: EPA  
Telephone: N/A  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016  
Date Data Arrived at EDR: 01/05/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 92

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 07/06/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 29

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: 800-424-9346
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018	Source: Department of the Navy
Date Data Arrived at EDR: 05/18/2018	Telephone: 843-820-7326
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/16/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018

Date Data Arrived at EDR: 06/27/2018

Date Made Active in Reports: 09/14/2018

Number of Days to Update: 79

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018

Date Data Arrived at EDR: 07/31/2018

Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018

Date Data Arrived at EDR: 07/31/2018

Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Quarterly

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018

Date Data Arrived at EDR: 08/10/2018

Date Made Active in Reports: 08/24/2018

Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/26/2018

Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: see region list
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 09/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

## LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 07/22/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6710  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018  
Date Data Arrived at EDR: 05/18/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 63

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 07/27/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018  
Date Data Arrived at EDR: 05/18/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 07/27/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-286-0457  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006  
Date Data Arrived at EDR: 05/18/2006  
Date Made Active in Reports: 06/15/2006  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-549-3147  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004  
Date Data Arrived at EDR: 11/18/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6600  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: Varies

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Semi-Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

## **State and tribal registered storage tank lists**

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017  
Date Data Arrived at EDR: 05/30/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 136

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Varies

### MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/11/2018	Source: SWRCB
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-341-5851
Date Made Active in Reports: 07/09/2018	Last EDR Contact: 09/12/2018
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Semi-Annually

## UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-327-7844
Date Made Active in Reports: 07/10/2018	Last EDR Contact: 09/12/2018
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

## AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 09/17/2018
Number of Days to Update: 69	Next Scheduled EDR Contact: 12/31/2018
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-9424
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### ***State and tribal voluntary cleanup sites***

#### VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/30/2018  
Date Data Arrived at EDR: 07/31/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 38

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 07/31/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Quarterly

## INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 09/24/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Varies

## **State and tribal Brownfields sites**

### BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/25/2018  
Date Data Arrived at EDR: 06/27/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 40

Source: State Water Resources Control Board  
Telephone: 916-323-7905  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/18/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000  
Date Data Arrived at EDR: 04/10/2000  
Date Made Active in Reports: 05/10/2000  
Number of Days to Update: 30

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 07/24/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: No Update Planned

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 54

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 09/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Quarterly

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018  
Date Data Arrived at EDR: 05/30/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 48

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 08/07/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 07/30/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: No Update Planned

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 08/03/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Local Lists of Hazardous waste / Contaminated Sites**

### **US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/20/2018	Telephone: 202-307-1000
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: No Update Planned

### **HIST CAL-SITES: Calsites Database**

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

### **SCH: School Property Evaluation Program**

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/31/2018	Telephone: 916-323-3400
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 07/31/2018
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Quarterly

### **CDL: Clandestine Drug Labs**

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/12/2018	Telephone: 916-255-6504
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 08/17/2018
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Varies

### **TOXIC PITS: Toxic Pits Cleanup Act Sites**

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

### **US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 86

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/28/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Quarterly

## CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018  
Date Data Arrived at EDR: 07/25/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 42

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 07/25/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Quarterly

## Local Lists of Registered Storage Tanks

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018  
Date Data Arrived at EDR: 05/25/2018  
Date Made Active in Reports: 07/10/2018  
Number of Days to Update: 46

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Annually

### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  
Date Data Arrived at EDR: 01/25/1991  
Date Made Active in Reports: 02/12/1991  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-341-5851  
Last EDR Contact: 07/26/2001  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018  
Date Data Arrived at EDR: 04/24/2018  
Date Made Active in Reports: 05/04/2018  
Number of Days to Update: 10

Source: San Francisco County Department of Public Health  
Telephone: 415-252-3896  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/31/1994  
Date Data Arrived at EDR: 09/05/1995  
Date Made Active in Reports: 09/29/1995  
Number of Days to Update: 24

Source: California Environmental Protection Agency  
Telephone: 916-341-5851  
Last EDR Contact: 12/28/1998  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018  
Date Data Arrived at EDR: 07/25/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 42

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 07/25/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Quarterly

## Local Land Records

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/05/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 43

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018  
Date Data Arrived at EDR: 05/30/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 30

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Semi-Annually

### DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/06/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 41

Source: DTSC and SWRCB  
Telephone: 916-323-3400  
Last EDR Contact: 09/05/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 09/25/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/24/2018	Telephone: 916-845-8400
Date Made Active in Reports: 06/14/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 51	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Semi-Annually

## LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018	Source: State Water Quality Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2018  
Date Data Arrived at EDR: 03/28/2018  
Date Made Active in Reports: 06/22/2018  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/19/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Semi-Annually

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/13/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018  
Date Data Arrived at EDR: 03/27/2018  
Date Made Active in Reports: 06/22/2018  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/03/2018
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 09/21/2018
Number of Days to Update: 198	Next Scheduled EDR Contact: 12/31/2018
	Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 08/24/2018
Number of Days to Update: 2	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/27/2018
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 703-416-0223
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 09/07/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Annually

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/17/2018	Telephone: 202-564-8600
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 07/20/2018
Number of Days to Update: 113	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/09/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 07/13/2018
Number of Days to Update: 126	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/09/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 09/28/2018
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/07/2018
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/04/2018
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 07/27/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/05/2018	Telephone: 202-343-9775
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 07/05/2018
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/09/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/31/2018  
Date Data Arrived at EDR: 04/16/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 09/11/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017  
Date Data Arrived at EDR: 10/11/2017  
Date Made Active in Reports: 11/03/2017  
Number of Days to Update: 23

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/20/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018  
Date Data Arrived at EDR: 05/30/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 30

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018  
Date Data Arrived at EDR: 05/31/2018  
Date Made Active in Reports: 06/29/2018  
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/31/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/31/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018	Source: Department of Interior
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-208-2609
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 09/10/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (415) 947-8000
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 09/18/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017	Source: Department of Defense
Date Data Arrived at EDR: 06/19/2018	Telephone: 703-704-1564
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 07/13/2018
Number of Days to Update: 87	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/05/2018	Telephone: 202-564-2280
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 08/31/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/21/2018  
Date Data Arrived at EDR: 05/23/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 107

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 08/22/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Quarterly

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989  
Date Data Arrived at EDR: 07/27/1994  
Date Made Active in Reports: 08/02/1994  
Number of Days to Update: 6

Source: Department of Health Services  
Telephone: 916-255-2118  
Last EDR Contact: 05/31/1994  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/25/2018  
Date Data Arrived at EDR: 06/27/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

## CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018  
Date Data Arrived at EDR: 09/12/2018  
Date Made Active in Reports: 09/19/2018  
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

## CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 04/03/2018  
Date Data Arrived at EDR: 05/07/2018  
Date Made Active in Reports: 06/15/2018  
Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department  
Telephone: 925-454-2361  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

## DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018  
Date Data Arrived at EDR: 06/28/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District  
Telephone: 661-723-8070  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 47

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Annually

## DRYCLEAN SOUTH COAST: DRYCLEAN SOUTH COAST

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/16/2018  
Date Data Arrived at EDR: 03/20/2018  
Date Made Active in Reports: 05/04/2018  
Number of Days to Update: 45

Source: South Coast Air Quality Management District  
Telephone: 909-396-3211  
Last EDR Contact: 08/22/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Varies

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 47

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 09/21/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Varies

## ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018  
Date Data Arrived at EDR: 08/02/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 36

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 07/24/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 48

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018  
Date Data Arrived at EDR: 08/16/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 25

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 08/07/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 07/12/2017  
Date Made Active in Reports: 10/17/2017  
Number of Days to Update: 97

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 07/13/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Annually

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018  
Date Data Arrived at EDR: 08/21/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 20

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 08/21/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018  
Date Data Arrived at EDR: 08/21/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 20

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/21/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Quarterly

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/09/2018  
Date Data Arrived at EDR: 07/11/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 44

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Quarterly

## MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 54

Source: Department of Conservation  
Telephone: 916-322-1080  
Last EDR Contact: 09/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Quarterly

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/23/2018  
Date Data Arrived at EDR: 06/06/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 42

Source: Department of Public Health  
Telephone: 916-558-1784  
Last EDR Contact: 09/05/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018  
Date Data Arrived at EDR: 08/10/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 31

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 08/10/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Quarterly

## PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/06/2018  
Date Made Active in Reports: 07/19/2018  
Number of Days to Update: 43

Source: Department of Pesticide Regulation  
Telephone: 916-445-4038  
Last EDR Contact: 09/05/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 54

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 09/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Quarterly

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 47

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 34

Source: Department of Conservation  
Telephone: 916-445-2408  
Last EDR Contact: 09/13/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

## WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/08/2018  
Date Data Arrived at EDR: 07/11/2018  
Date Made Active in Reports: 09/13/2018  
Number of Days to Update: 64

Source: RWQCB, Central Valley Region  
Telephone: 559-445-5577  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007  
Date Data Arrived at EDR: 06/20/2007  
Date Made Active in Reports: 06/29/2007  
Number of Days to Update: 9

Source: State Water Resources Control Board  
Telephone: 916-341-5227  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Quarterly

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009  
Date Data Arrived at EDR: 07/21/2009  
Date Made Active in Reports: 08/03/2009  
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Varies

## CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018  
Date Data Arrived at EDR: 07/25/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 42

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 07/25/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/04/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/06/2018	Telephone: 866-794-4977
Date Made Active in Reports: 07/13/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

## WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-341-5810
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 09/12/2018
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 06/11/2018	Source: State Water Resource Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROJECT: Project Sites (GEOTRACKER)  
Projects sites

Date of Government Version: 06/11/2018  
Date Data Arrived at EDR: 06/13/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 12/12/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/03/2018	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 08/06/2018	Telephone: 510-567-6700
Date Made Active in Reports: 09/05/2018	Last EDR Contact: 08/01/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Semi-Annually

#### UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/06/2018	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 07/10/2018	Telephone: 510-567-6700
Date Made Active in Reports: 09/11/2018	Last EDR Contact: 07/05/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 04/24/2047
	Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/01/2018	Source: Amador County Environmental Health
Date Data Arrived at EDR: 07/24/2018	Telephone: 209-223-6439
Date Made Active in Reports: 08/20/2018	Last EDR Contact: 08/29/2018
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

### BUTTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA BUTTE: CUPA Facility Listing  
Cupa facility list.

Date of Government Version: 04/21/2017  
Date Data Arrived at EDR: 04/25/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 106

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 07/05/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing  
Cupa Facility Listing

Date of Government Version: 08/02/2018  
Date Data Arrived at EDR: 08/06/2018  
Date Made Active in Reports: 08/20/2018  
Number of Days to Update: 14

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 09/24/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List  
Cupa facility list.

Date of Government Version: 05/23/2018  
Date Data Arrived at EDR: 05/24/2018  
Date Made Active in Reports: 07/13/2018  
Number of Days to Update: 50

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018  
Date Data Arrived at EDR: 08/21/2018  
Date Made Active in Reports: 09/11/2018  
Number of Days to Update: 21

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 07/30/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List  
Cupa Facility list

Date of Government Version: 04/27/2018  
Date Data Arrived at EDR: 05/02/2018  
Date Made Active in Reports: 06/15/2018  
Number of Days to Update: 44

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 07/24/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

EL DORADO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 09/04/2018  
Date Data Arrived at EDR: 09/05/2018  
Date Made Active in Reports: 09/18/2018  
Number of Days to Update: 13

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 07/30/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2018  
Date Data Arrived at EDR: 07/17/2018  
Date Made Active in Reports: 08/30/2018  
Number of Days to Update: 44

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Semi-Annually

## GLENN COUNTY:

### CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 03/14/2018  
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District  
Telephone: 830-934-6500  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## HUMBOLDT COUNTY:

### CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 07/11/2018  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 08/22/2018  
Number of Days to Update: 40

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 08/20/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

### CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 07/24/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 43

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## INYO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/03/2018  
Date Made Active in Reports: 06/14/2018  
Number of Days to Update: 72

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## KERN COUNTY:

### UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 07/20/2018  
Date Data Arrived at EDR: 07/25/2018  
Date Made Active in Reports: 09/12/2018  
Number of Days to Update: 49

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 07/20/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/23/2018  
Date Data Arrived at EDR: 08/24/2018  
Date Made Active in Reports: 09/18/2018  
Number of Days to Update: 25

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 08/08/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 08/22/2018  
Number of Days to Update: 13

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 07/16/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Varies

## LASSEN COUNTY:

### CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/27/2018  
Date Data Arrived at EDR: 08/06/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 30

Source: Lassen County Environmental Health  
Telephone: 530-251-8528  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AOCONCERN: San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: No Update Planned

## HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 59

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 07/05/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Semi-Annually

## LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/16/2018  
Date Data Arrived at EDR: 07/18/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 37

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 07/18/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Varies

## LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018  
Date Data Arrived at EDR: 05/01/2018  
Date Made Active in Reports: 05/14/2018  
Number of Days to Update: 13

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Varies

## SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/01/2018  
Date Data Arrived at EDR: 04/17/2018  
Date Made Active in Reports: 06/19/2018  
Number of Days to Update: 63

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 07/20/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Annually

## UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 04/19/2017  
Date Made Active in Reports: 05/10/2017  
Number of Days to Update: 21

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 07/11/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Semi-Annually

## UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017  
Date Data Arrived at EDR: 03/10/2017  
Date Made Active in Reports: 05/03/2017  
Number of Days to Update: 54

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST TORRANCE: City of Torrance Underground Storage Tank  
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 01/05/2018	Telephone: 310-618-2973
Date Made Active in Reports: 01/18/2018	Last EDR Contact: 07/23/2018
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/30/2018	Source: Madera County Environmental Health
Date Data Arrived at EDR: 09/04/2018	Telephone: 559-675-7823
Date Made Active in Reports: 09/19/2018	Last EDR Contact: 08/17/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites  
Currently permitted USTs in Marin County.

Date of Government Version: 07/11/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 07/17/2018	Telephone: 415-473-6647
Date Made Active in Reports: 09/12/2018	Last EDR Contact: 07/11/2018
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List  
CUPA facility list.

Date of Government Version: 08/29/2018	Source: Merced County Environmental Health
Date Data Arrived at EDR: 08/31/2018	Telephone: 209-381-1094
Date Made Active in Reports: 09/19/2018	Last EDR Contact: 08/29/2018
Number of Days to Update: 19	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List  
CUPA Facility List

Date of Government Version: 07/18/2018	Source: Mono County Health Department
Date Data Arrived at EDR: 09/04/2018	Telephone: 760-932-5580
Date Made Active in Reports: 09/19/2018	Last EDR Contact: 08/24/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

MONTEREY COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018  
Date Data Arrived at EDR: 08/02/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 34

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 07/02/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Varies

## NAPA COUNTY:

### LUST NAPA: Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 03/02/2017  
Number of Days to Update: 50

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: No Update Planned

### UST NAPA: Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 05/23/2018  
Date Data Arrived at EDR: 05/31/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 41

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 07/31/2018  
Date Data Arrived at EDR: 08/02/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 34

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 07/24/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

## ORANGE COUNTY:

### IND\_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018  
Date Data Arrived at EDR: 08/08/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 33

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/07/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Annually

### LUST ORANGE: List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018  
Date Data Arrived at EDR: 08/08/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 33

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/03/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST ORANGE: List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/13/2018  
Date Data Arrived at EDR: 08/06/2018  
Date Made Active in Reports: 09/12/2018  
Number of Days to Update: 37

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/06/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/05/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 43

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Semi-Annually

## PLUMAS COUNTY:

### CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018  
Date Data Arrived at EDR: 07/25/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 42

Source: Plumas County Environmental Health  
Telephone: 530-283-6355  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## RIVERSIDE COUNTY:

### LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/09/2018  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 42

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Quarterly

### UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/09/2018  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 09/12/2018  
Number of Days to Update: 61

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/07/2018  
Date Data Arrived at EDR: 07/03/2018  
Date Made Active in Reports: 08/13/2018  
Number of Days to Update: 41

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 07/03/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Quarterly

## ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/14/2018  
Date Data Arrived at EDR: 07/03/2018  
Date Made Active in Reports: 08/13/2018  
Number of Days to Update: 41

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 07/03/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 08/07/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 27

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

### PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018  
Date Data Arrived at EDR: 07/31/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 07/24/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/06/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 41

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 09/06/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018  
Date Data Arrived at EDR: 04/24/2018  
Date Made Active in Reports: 06/19/2018  
Number of Days to Update: 56

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 07/24/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 31

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

### UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/07/2018  
Date Data Arrived at EDR: 06/12/2018  
Date Made Active in Reports: 07/10/2018  
Number of Days to Update: 28

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 15

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 08/20/2018  
Date Data Arrived at EDR: 08/21/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 17

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

### BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/12/2018  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 08/06/2018  
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/10/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Annually

### LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/12/2018  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 08/13/2018  
Number of Days to Update: 59

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/10/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 08/17/2018  
Date Data Arrived at EDR: 08/22/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 16

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

### HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Annually

## SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/01/2018  
Date Data Arrived at EDR: 08/06/2018  
Date Made Active in Reports: 09/11/2018  
Number of Days to Update: 36

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 05/23/2017  
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA SHASTA: CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/15/2017  
Date Data Arrived at EDR: 06/19/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 51

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

## SOLANO COUNTY:

### LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/08/2018  
Date Made Active in Reports: 07/18/2018  
Number of Days to Update: 40

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/12/2018  
Date Made Active in Reports: 07/12/2018  
Number of Days to Update: 30

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 06/19/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 09/24/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Varies

## LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/03/2018  
Date Data Arrived at EDR: 07/10/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 45

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 09/24/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

### CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 08/14/2018  
Date Data Arrived at EDR: 08/16/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 8

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 07/16/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Varies

## SUTTER COUNTY:

### UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018  
Date Data Arrived at EDR: 06/08/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 33

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List Cupa facilities

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/02/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List Cupa facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 07/24/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 45

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## TULARE COUNTY:

### CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 09/13/2018  
Date Data Arrived at EDR: 09/14/2018  
Date Made Active in Reports: 09/19/2018  
Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 09/13/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

### CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018  
Date Data Arrived at EDR: 04/25/2018  
Date Made Active in Reports: 06/25/2018  
Number of Days to Update: 61

Source: Divison of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

## VENTURA COUNTY:

### BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018  
Date Data Arrived at EDR: 07/26/2018  
Date Made Active in Reports: 09/05/2018  
Number of Days to Update: 41

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 07/23/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Quarterly

### LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 06/27/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Annually

### LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/07/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 07/23/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Quarterly

## UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 04/26/2018	Source: Environmental Health Division
Date Data Arrived at EDR: 06/13/2018	Telephone: 805-654-2813
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 09/12/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/24/2018
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/20/2018	Source: Yolo County Department of Health
Date Data Arrived at EDR: 07/03/2018	Telephone: 530-666-8646
Date Made Active in Reports: 07/12/2018	Last EDR Contact: 06/27/2018
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Annually

## YUBA COUNTY:

### CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 05/15/2018	Telephone: 530-749-7523
Date Made Active in Reports: 06/15/2018	Last EDR Contact: 08/07/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/10/2018	Telephone: 860-424-3375
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 08/01/2018  
Number of Days to Update: 19

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/13/2018  
Next Scheduled EDR Contact: 10/22/2018  
Data Release Frequency: Annually

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018  
Date Data Arrived at EDR: 08/01/2018  
Date Made Active in Reports: 08/31/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 07/25/2017  
Date Made Active in Reports: 09/25/2017  
Number of Days to Update: 62

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/12/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/21/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 07/09/2018  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/06/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

GEORGE BORBA SITE  
7955 EUCALYPTUS AVE  
CHINO, CA 91710

### TARGET PROPERTY COORDINATES

Latitude (North): 33.989449 - 33° 59' 22.02"  
Longitude (West): 117.631268 - 117° 37' 52.56"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 441694.8  
UTM Y (Meters): 3760971.2  
Elevation: 671 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 5640938 PRADO DAM, CA  
Version Date: 2012

Northeast Map: 5620426 GUASTI, CA  
Version Date: 2012

Southeast Map: 5640930 CORONA NORTH, CA  
Version Date: 2012

Northwest Map: 5619074 ONTARIO, CA  
Version Date: 2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

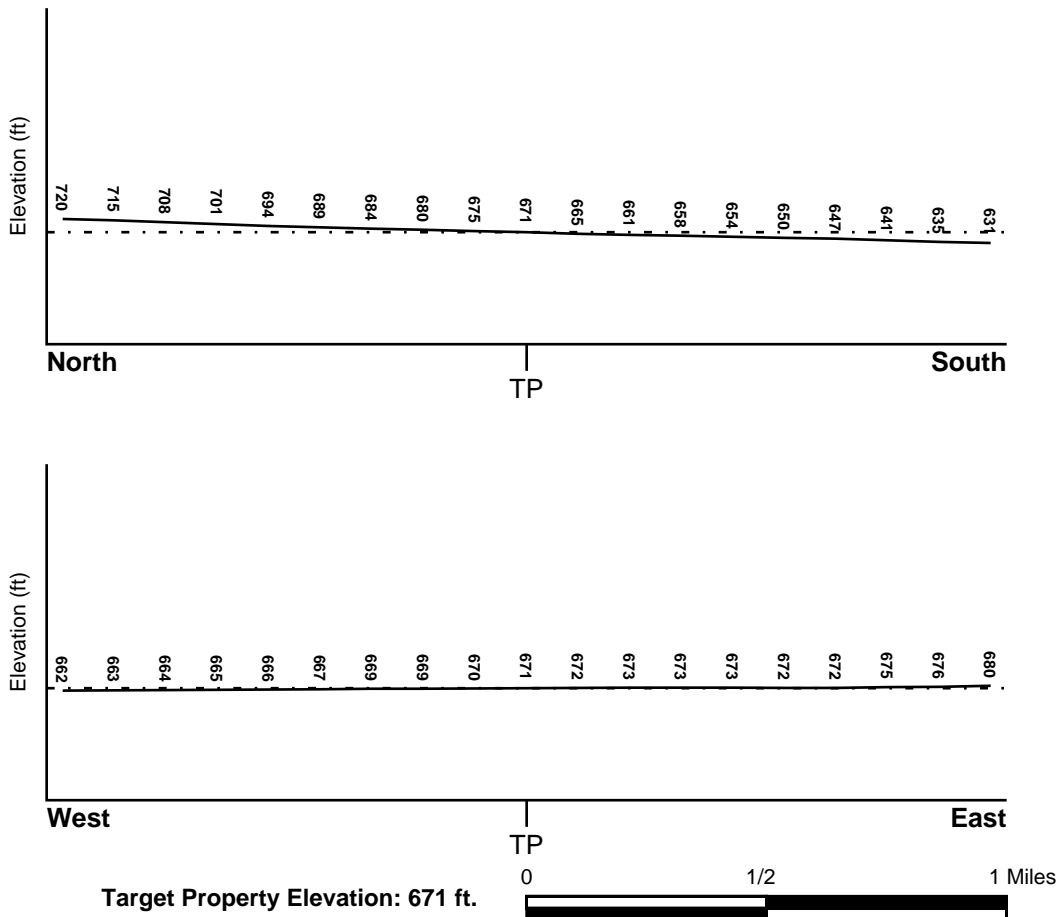
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06071C9335H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06037C1750F	FEMA FIRM Flood data
06071C8620H	FEMA FIRM Flood data
06071C8638H	FEMA FIRM Flood data
06071C9375H	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PRADO DAM	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

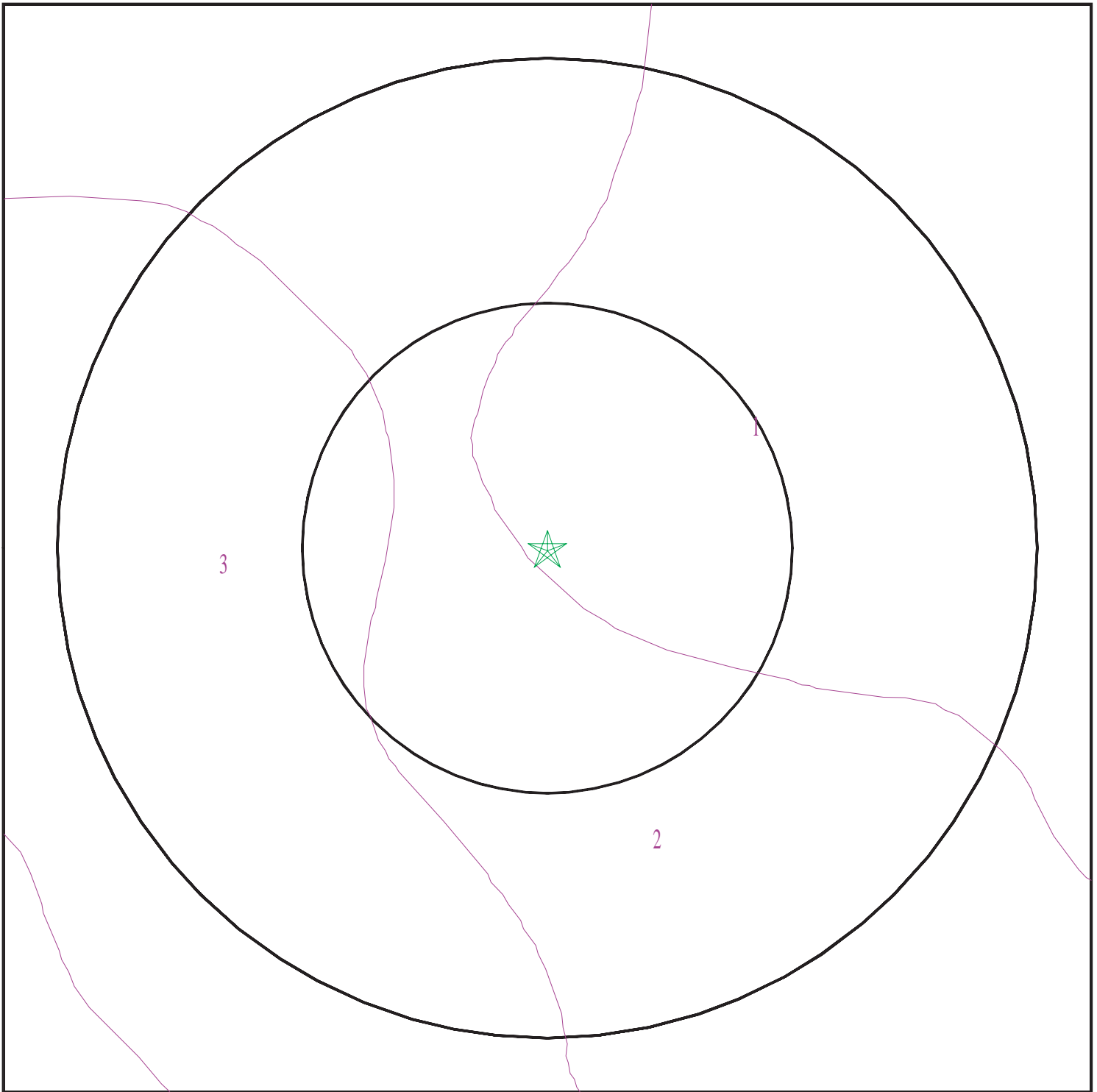
Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

#### **GEOLOGIC AGE IDENTIFICATION**

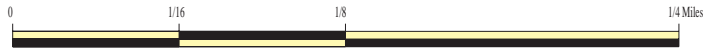
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 5440037.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: George Borba Site  
ADDRESS: 7955 Eucalyptus Ave  
Chino CA 91710  
LAT/LONG: 33.989449 / 117.631268

CLIENT: Group Delta Consultants  
CONTACT: Elaine Horng  
INQUIRY #: 5440037.2s  
DATE: October 01, 2018 4:40 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: HILMAR

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	22 inches	59 inches	stratified loamy sand to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

### Soil Map ID: 3

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

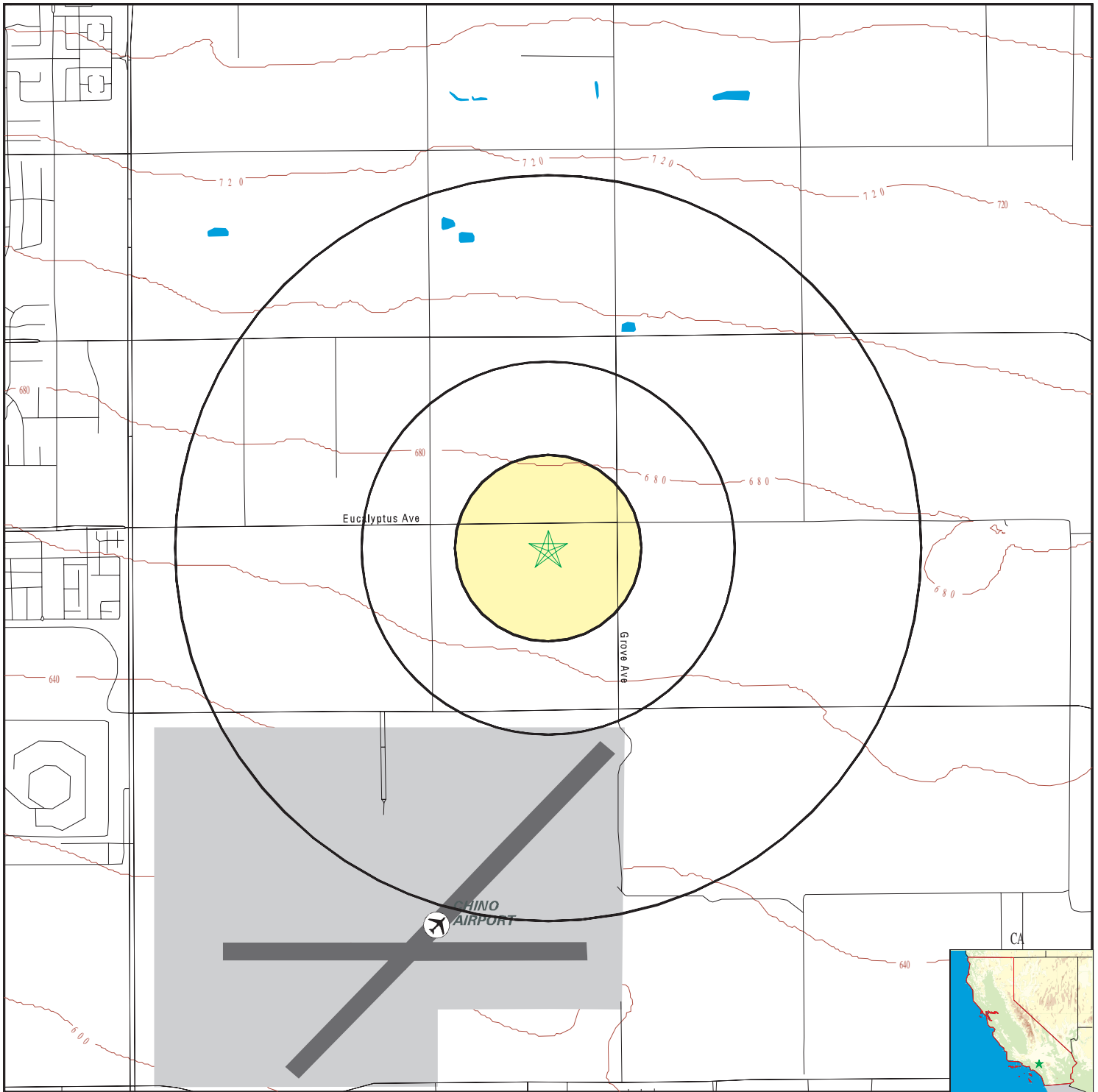
MAP ID

WELL ID

LOCATION  
FROM TP

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 5440037.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: George Borba Site  
 ADDRESS: 7955 Eucalyptus Ave  
 Chino CA 91710  
 LAT/LONG: 33.989449 / 117.631268

CLIENT: Group Delta Consultants  
 CONTACT: Elaine Horng  
 INQUIRY #: 5440037.2s  
 DATE: October 01, 2018 4:39 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91710	14	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 91710

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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**George Borba Site**

Eucalyptus and Grove

Chino, CA 91710

Inquiry Number: 5220547.9

March 15, 2018

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Aerial Photo Decade Package

03/15/18

**Site Name:**

George Borba Site  
Eucalyptus and Grove  
Chino, CA 91710  
EDR Inquiry # 5220547.9

**Client Name:**

Group Delta Consultants  
1035 S. Milliken Ave Suite G  
Ontario, CA 91761  
Contact: Jack Packwood



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1987	1"=500'	Flight Date: March 29, 1987	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1953	1"=500'	Flight Date: March 03, 1953	USDA
1948	1"=500'	Flight Date: July 10, 1948	USGS
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: May 30, 1938	USDA

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INQUIRY # 5220547.9

YEAR: 2014

— = 500'





INQUIRY #: 5220547.9

YEAR: 2010

— = 500'





INQUIRY #: 5220547.9

YEAR: 2006

— = 500'





INQUIRY #: 5220547.9

YEAR: 1994

— = 500'





INQUIRY #: 5220547.9

YEAR: 1990

— = 500'





INQUIRY #: 5220547.9

YEAR: 1989

— = 500'





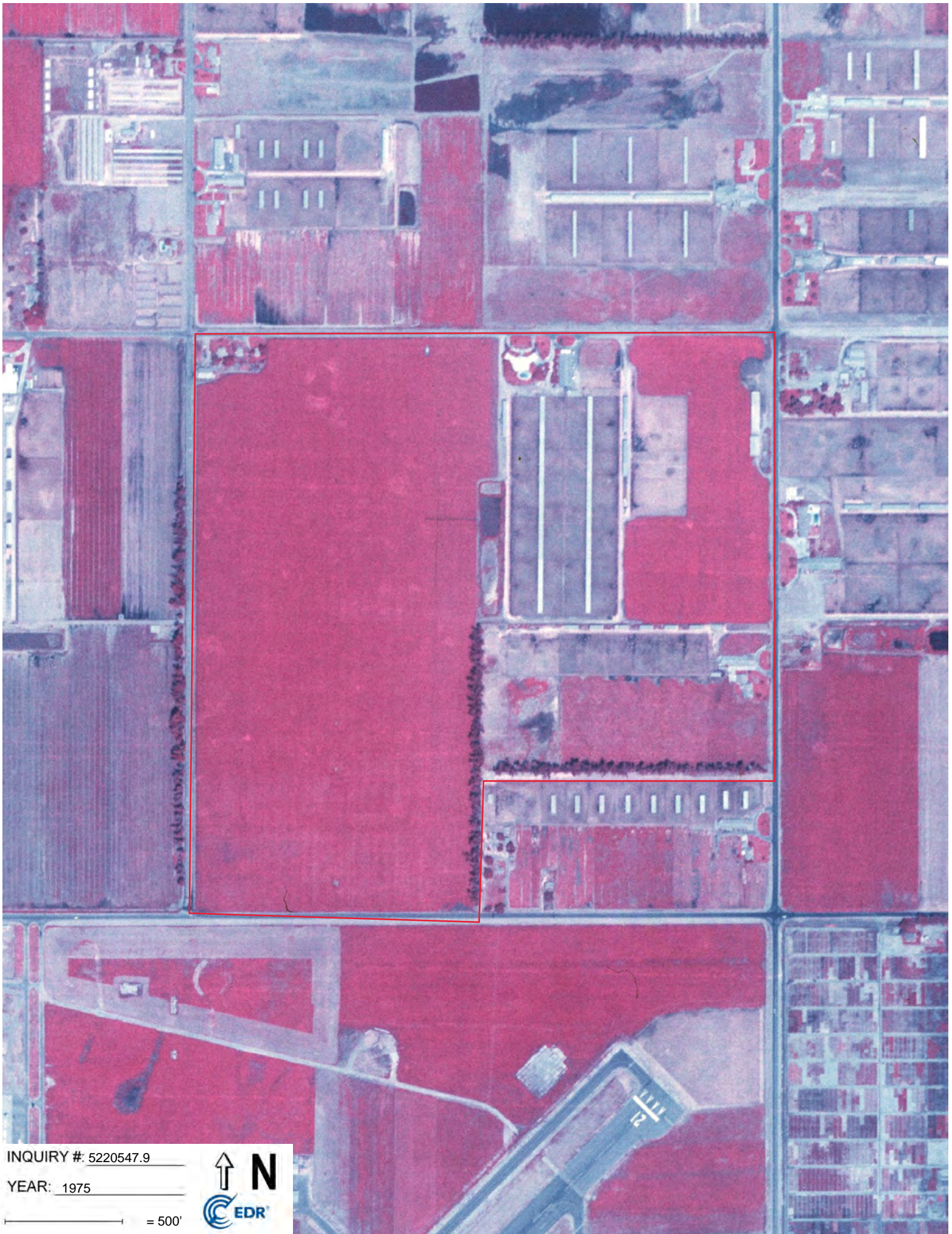
INQUIRY #: 5220547.9

YEAR: 1987

— = 500'







INQUIRY #: 5220547.9

YEAR: 1975

— = 500'





INQUIRY # 5220547.9

YEAR: 1966

— = 500'



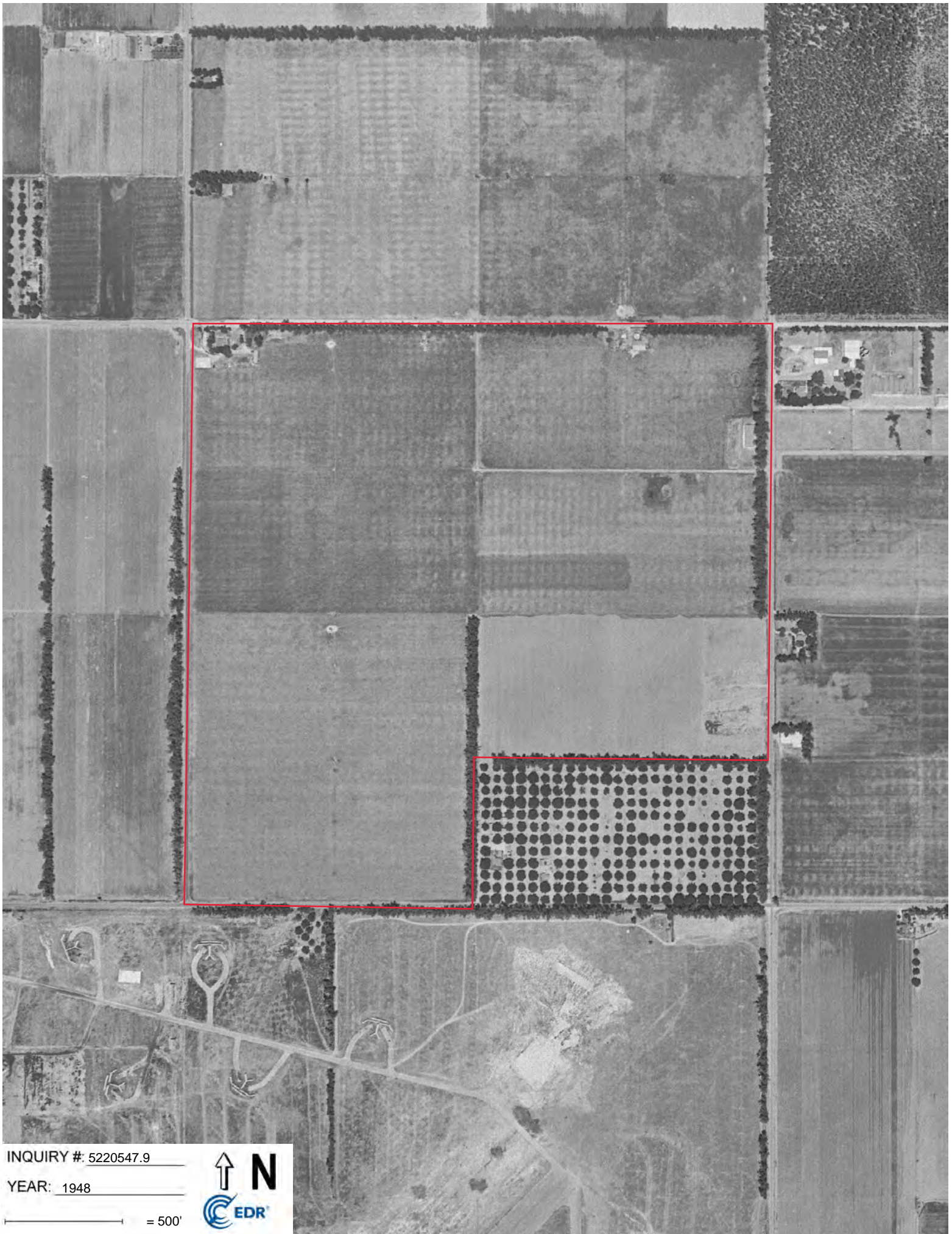


INQUIRY # 5220547.9

YEAR: 1953

— = 500'





INQUIRY # 5220547.9

YEAR: 1948

— = 500'



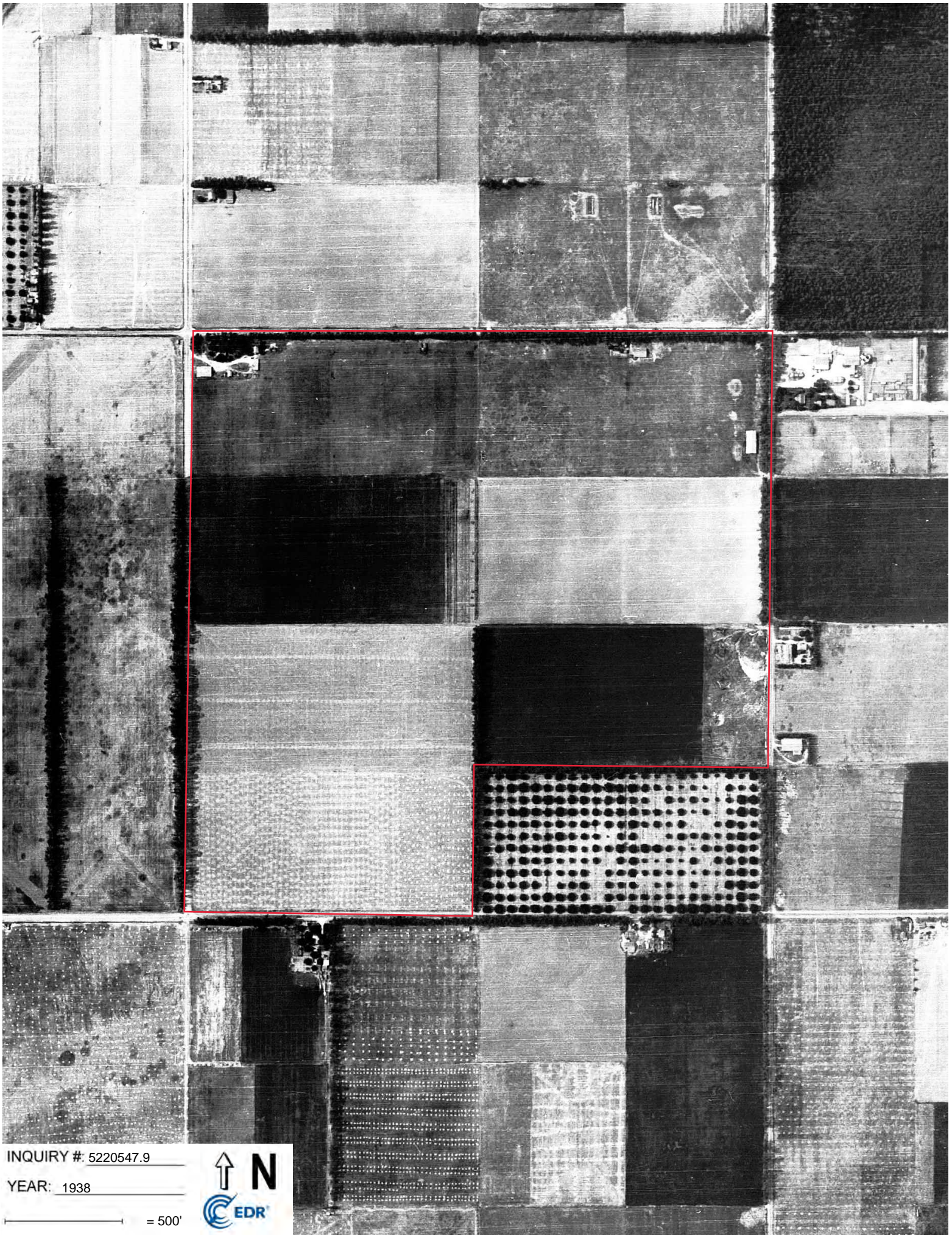


INQUIRY #: 5220547.9

YEAR: 1946

— = 500'





INQUIRY #: 5220547.9

YEAR: 1938

— = 500'



**George Borba Site**

Eucalyptus and Grove  
Chino, CA 91710

Inquiry Number: 5220547.5  
March 14, 2018

## The EDR-City Directory Abstract

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### SECTION

Executive Summary

Findings

City Directory Images

***Thank you for your business.***

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2014	EDR Digital Archive	-	-	-	-
2010	EDR Digital Archive	-	-	-	-
2008	Haines Company, Inc.	-	X	X	-
2003	Haines & Co Publishers	-	X	X	-
2002	Cole Information Services	-	-	-	-
1996	GTE	-	X	X	-
1995	GTE Directories	-	-	-	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	X	-
	GTE California Incorporated	-	X	X	-
1985	GTE	-	X	X	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	X	X	-
1975	GTE Directories	-	X	X	-
1970	General Telephone Company of California	-	X	X	-
1965	GTE	-	X	X	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	-	X	X	-
1956	General Telephone Company Publishers	-	X	X	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Company Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern California Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co Publisher	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

Eucalyptus and Grove  
Chino, CA 91710

#### FINDINGS DETAIL

Target Property research detail.

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### ETIWANDA AVE

##### 80336619 ETIWANDA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Stevens H Lee Mrs	General Telephone Company Publishers

##### 87696871 ETIWANDA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Colombero Construction Co	General Telephone Company Publishers

#### EUCALYPTUS AVE

##### 7955 EUCALYPTUS AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	BORBA George	Haines & Co Publishers
1996	Borba Geo	GTE
1990	BORBA GEO	GTE California Incorporated
1985	BORBA GEO	GTE
1980	BORBA GEO	GTE
1970	BORBA GEORGE	General Telephone Company of California

#### GROVE AV CHURCH N

##### 14525 GROVE AV CHURCH N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	Garcia Hector	GTE

#### GROVE AVE

##### 14361 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ALEWYN Jake J	Haines & Co Publishers
1980	ALEWYN JAKE J	GTE

##### 14400 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	FERREIRA Joe	Haines & Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	Ferreira Joe C Jr	GTE Directories

### 14441 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers
1980	MIERSMA BOB	GTE
1975	Miersma Harlan	GTE Directories
1970	VANOERVEEN JOE	General Telephone Company of California

### 14474 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	MOUW Travis N	Haines Company, Inc.
2003	MIERSMA Harlan	Haines & Co Publishers
1996	Miersma Harlan	GTE
1990	Miersma Harlan	GTE
1985	MIERSMA HARLAN	GTE
1980	MIERSMA HARLAN	GTE
1975	Miersma Harry	GTE Directories
1970	VANDER VEEN WILBUR	General Telephone Company of California

### 14525 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers
1985	GARCIA HECTOR	GTE
1980	GARCIA HECTOR	GTE
1975	Borba Joe Jr	GTE Directories

### 14544 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	ORNELLAS Carmen	Haines Company, Inc.
2003	CAMPOS Norma	Haines & Co Publishers
1990	Silva Paul	GTE
1985	+ SILVA PAUL	GTE
1980	SILVA RICHARO	GTE

### 14545 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	BORBA JOE DAIRY	Haines Company, Inc.

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	BORBA JOE DAIRY	Haines & Co Publishers
1996	BORBA JOE DAIRY	GTE
1990	Borba Joe Dairy	GTE
1985	9 BORBA JOE DAIRY	GTE
1980	+ SANTOS JOHN	GTE
	BORBA JOE DAIRY	GTE
1975	Borba Joe Dairy	GTE Directories
1970	a BORBA JOE DAIRY	General Telephone Company of California
1960	Borba Johnny	General Telephone Company Publishers
	Borba Johnny	General Telephone Company Publishers
1956	Borba Johnny	General Telephone Company Publishers
	Borba Johnny	General Telephone Company Publishers

### 14547 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Co Publishers

### 14651 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	HARDISTY J	Haines Company, Inc.
	HARDISTY M	Haines Company, Inc.

### 14746 GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	SANDOVAL Jennel	Haines Company, Inc.

### N GROVE AVE

#### 14545 N GROVE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	BORBA JOE 62 B 0132	GTE
	n TEIXIERA ANTONIO	GTE

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### Address Researched

Eucalyptus and Grove

#### Address Not Identified in Research Source

2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

#### Address Researched

14361 GROVE AVE

#### Address Not Identified in Research Source

2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14400 GROVE AVE

2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14441 GROVE AVE

2014, 2010, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14474 GROVE AVE

2014, 2010, 2002, 1995, 1991, 1981, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14525 GROVE AV CHURCH N

2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14525 GROVE AVE

2014, 2010, 2002, 1996, 1995, 1991, 1990, 1981, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14544 GROVE AVE

2014, 2010, 2002, 1996, 1995, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14545 GROVE AVE

2014, 2010, 2002, 1995, 1991, 1981, 1965, 1964, 1961, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14545 N GROVE AVE

2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14547 GROVE AVE

2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

14651 GROVE AVE

2014, 2010, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

## FINDINGS

### Address Researched

14746 GROVE AVE

7955 EUCALYPTUS AVE

80336619 ETIWANDA AVE

87696871 ETIWANDA AVE

### Address Not Identified in Research Source


2014, 2010, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2014, 2010, 2008, 2002, 1995, 1991, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922





George Borba Site  
Eucalyptus and Grove  
Chino, CA 91710

Inquiry Number: 5220547.3

March 14, 2018

## Certified Sanborn® Map Report



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Shelton, CT 06484  
Toll Free: 800.352.0050  
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# Certified Sanborn® Map Report

03/14/18

**Site Name:**

George Borba Site  
Eucalyptus and Grove  
Chino, CA 91710  
EDR Inquiry # 5220547.3

**Client Name:**

Group Delta Consultants  
1035 S. Milliken Ave Suite G  
Ontario, CA 91761  
Contact: Jack Packwood



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### Certified Sanborn Results:

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**PO #** NA  
**Project** Hillwood - George Borba Site



Sanborn® Library search results

Certification #: 5266-4F9A-84A1

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- ✓ University Publications of America
- ✓ EDR Private Collection

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George Borba Site  
Eucalyptus and Grove  
Chino, CA 91710

Inquiry Number: 5220547.4

March 14, 2018

# EDR Historical Topo Map Report

with QuadMatch™



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Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

03/14/18

**Site Name:**

George Borba Site  
Eucalyptus and Grove  
Chino, CA 91710  
EDR Inquiry # 5220547.4

**Client Name:**

Group Delta Consultants  
1035 S. Milliken Ave Suite G  
Ontario, CA 91761  
Contact: Jack Packwood



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Group Delta Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	33.989428 33° 59' 22" North
<b>Project:</b>	Hillwood - George Borba Site	<b>Longitude:</b>	-117.634551 -117° 38' 4" West
		<b>UTM Zone:</b>	Zone 11 North
		<b>UTM X Meters:</b>	441392.88
		<b>UTM Y Meters:</b>	3761165.21
		<b>Elevation:</b>	669.18' above sea level

**Maps Provided:**

2012	1933
1981	1902
1973	
1950, 1953, 1954	
1949	
1944, 1947	
1942	
1941	

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

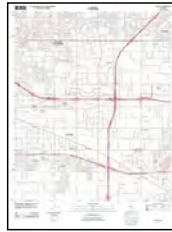
### 2012 Source Sheets



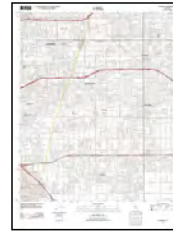
Corona North  
2012  
7.5-minute, 24000



Prado Dam  
2012  
7.5-minute, 24000



Guasti  
2012  
7.5-minute, 24000

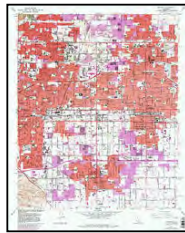


Ontario  
2012  
7.5-minute, 24000

### 1981 Source Sheets



Guasti  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978



Ontario  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978



Corona North  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978

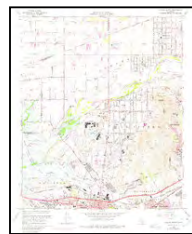


Prado Dam  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978

### 1973 Source Sheets



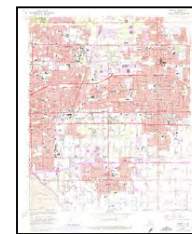
Guasti  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973



Corona North  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973



Prado Dam  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

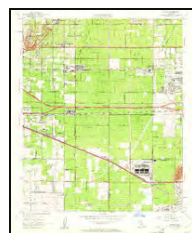


Ontario  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

### 1950, 1953, 1954 Source Sheets



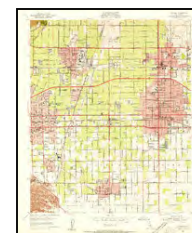
Prado Dam  
1950  
7.5-minute, 24000  
Aerial Photo Revised 1946



Guasti  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952



Corona North  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1952



Ontario  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1952

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1949 Source Sheets



Prado Dam  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946

### 1944, 1947 Source Sheets



CUCAMONGA  
1944  
15-minute, 50000



CORONA  
1947  
15-minute, 50000

### 1942 Source Sheets



Ontario and Vicinity  
1942  
7.5-minute, 31680



Corona and Vicinity  
1942  
7.5-minute, 31680

### 1941 Source Sheets



Prado  
1941  
7.5-minute, 31680



GUASTI VICINITY  
1941  
7.5-minute, 31680

## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1933 Source Sheets**

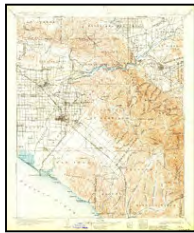


Prado  
1933  
7.5-minute, 31680

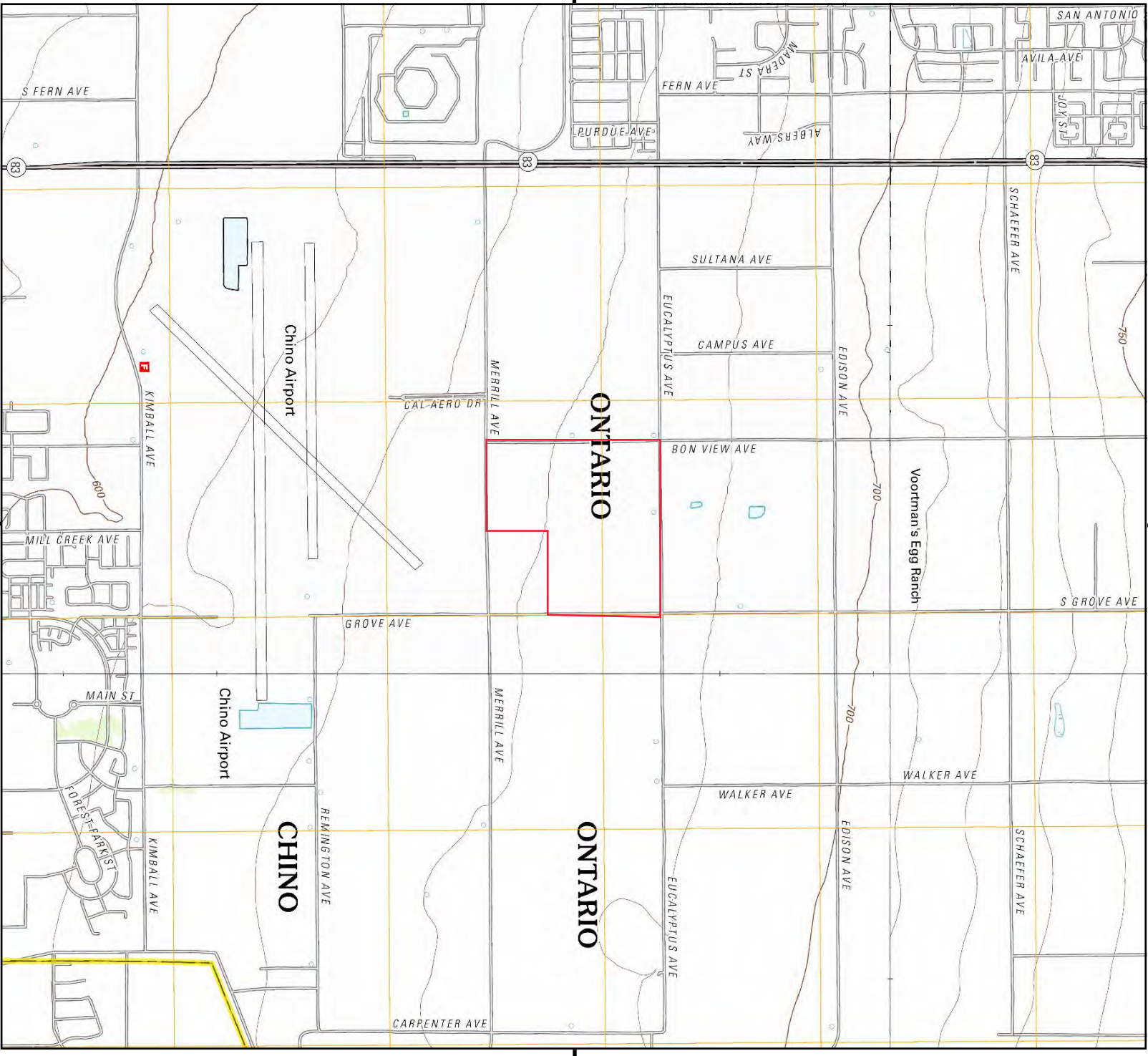


Ontario  
1933  
7.5-minute, 31680

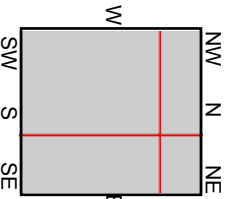
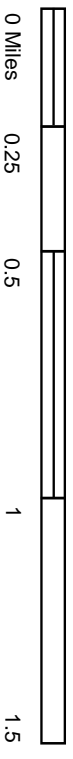
### **1902 Source Sheets**



Corona  
1902  
30-minute, 125000

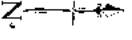


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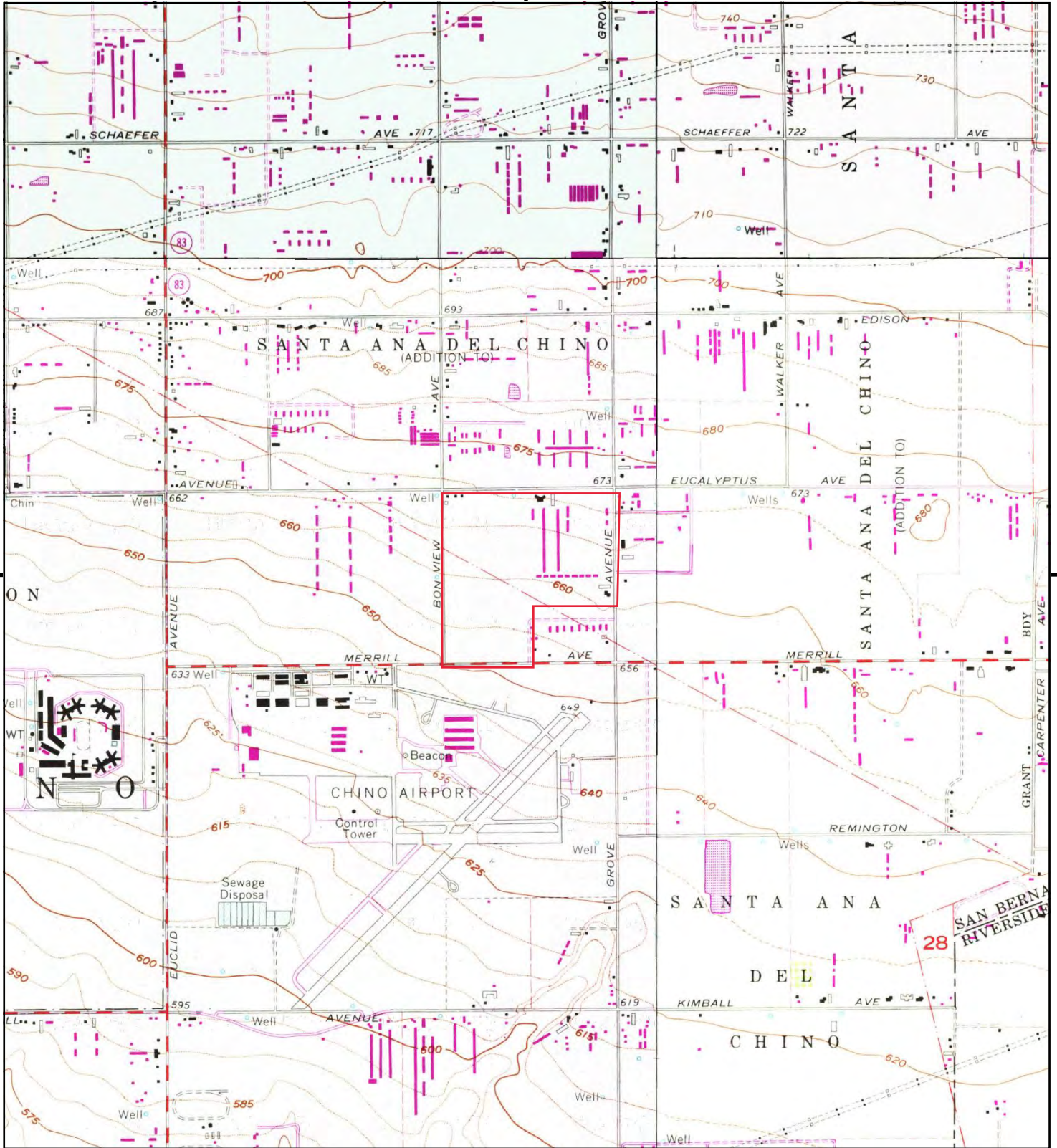


- TP, Prado Dam, 2012, 7.5-minute
- NE, Guasti, 2012, 7.5-minute
- SE, Corona North, 2012, 7.5-minute
- NW, Ontario, 2012, 7.5-minute

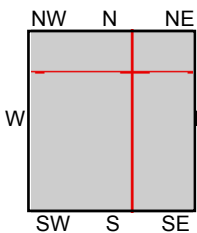
**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants







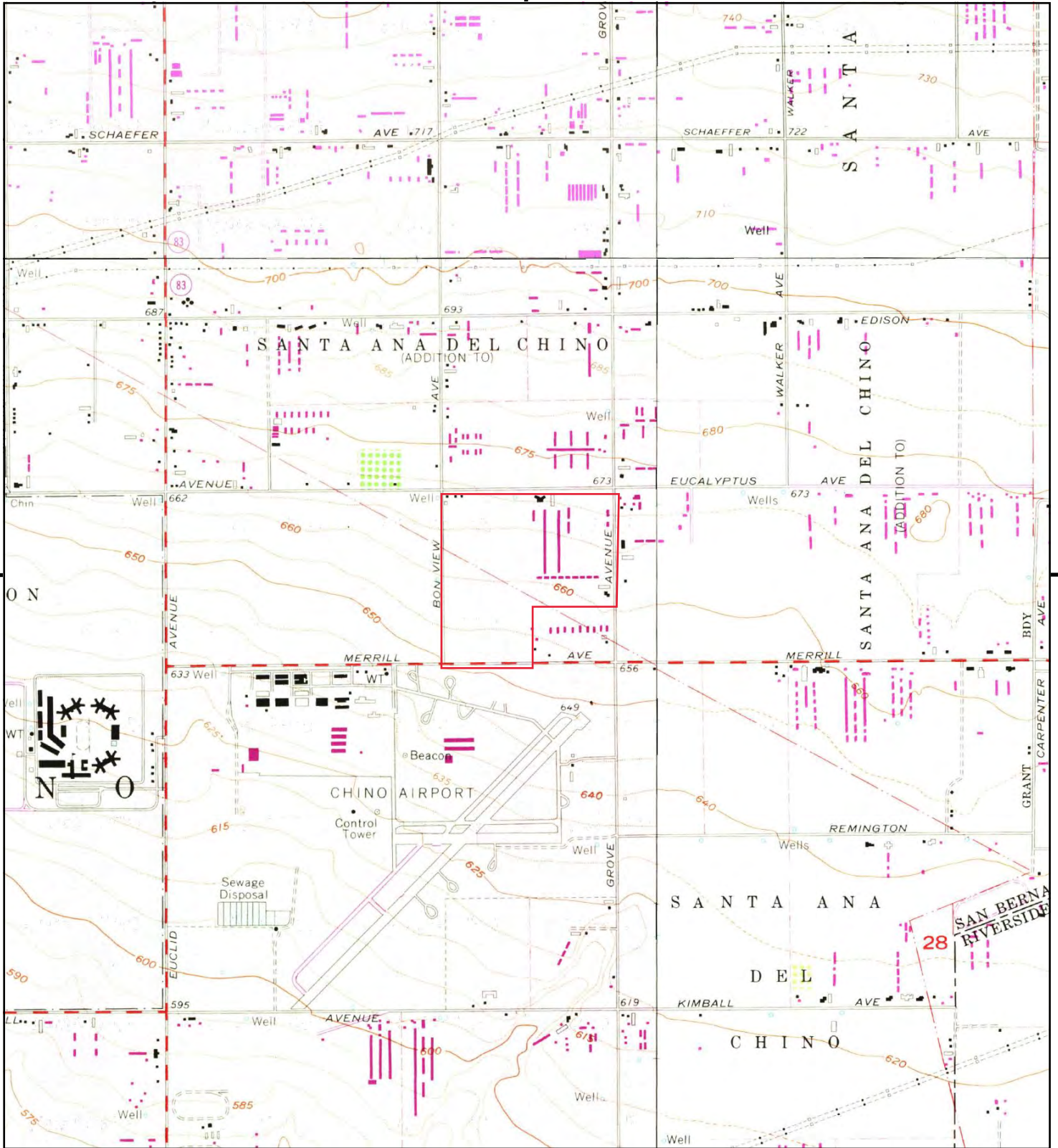
This report includes information from the following map sheet(s).



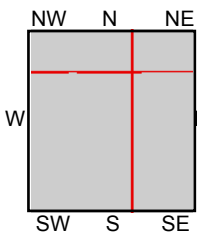
TP, Prado Dam, 1981, 7.5-minute  
 NE, Guasti, 1981, 7.5-minute  
 SE, Corona North, 1981, 7.5-minute  
 NW, Ontario, 1981, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants





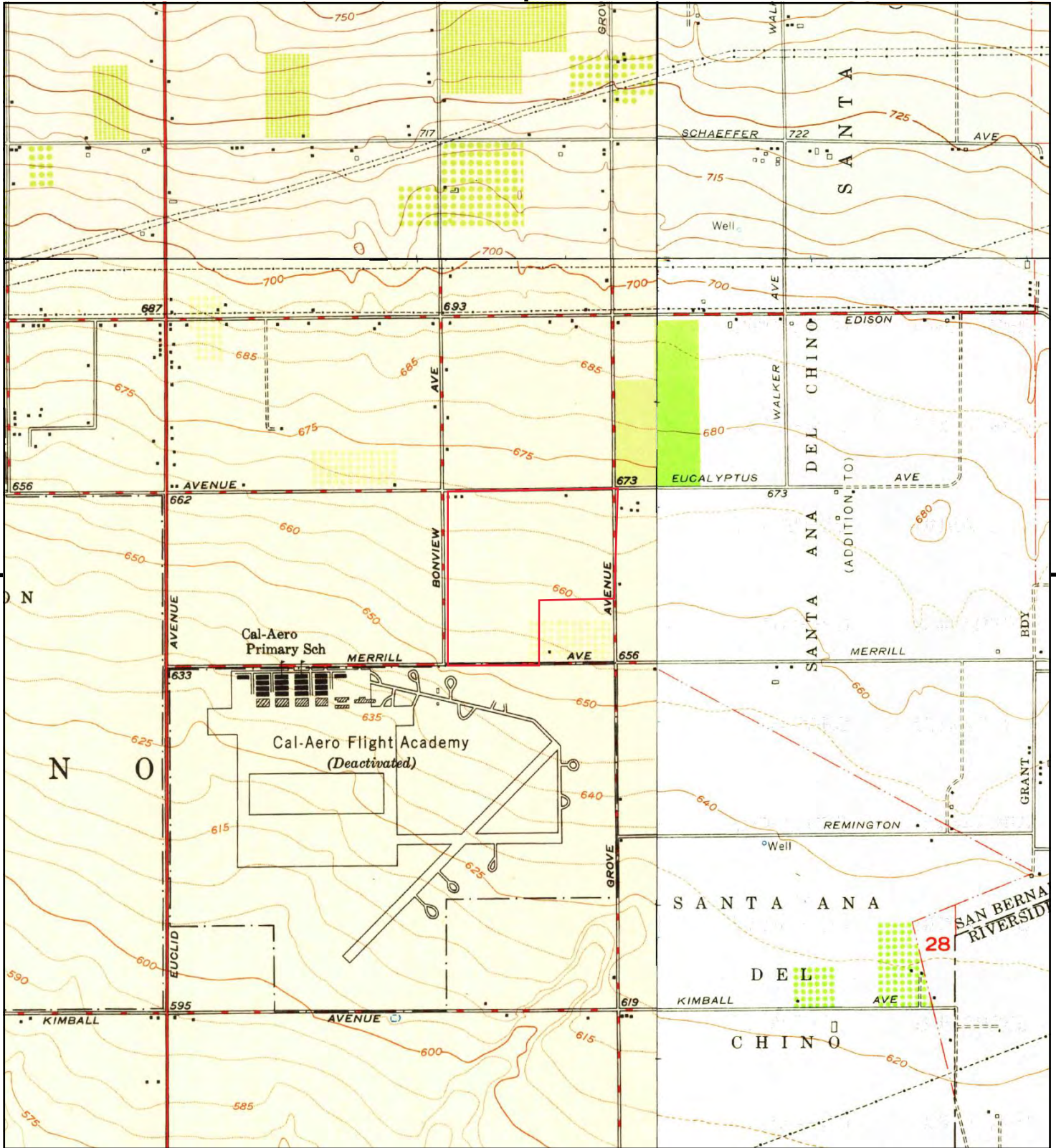
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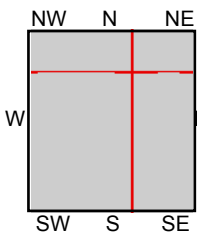
TP, Prado Dam, 1973, 7.5-minute  
 NE, Guasti, 1973, 7.5-minute  
 SE, Corona North, 1973, 7.5-minute  
 NW, Ontario, 1973, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants





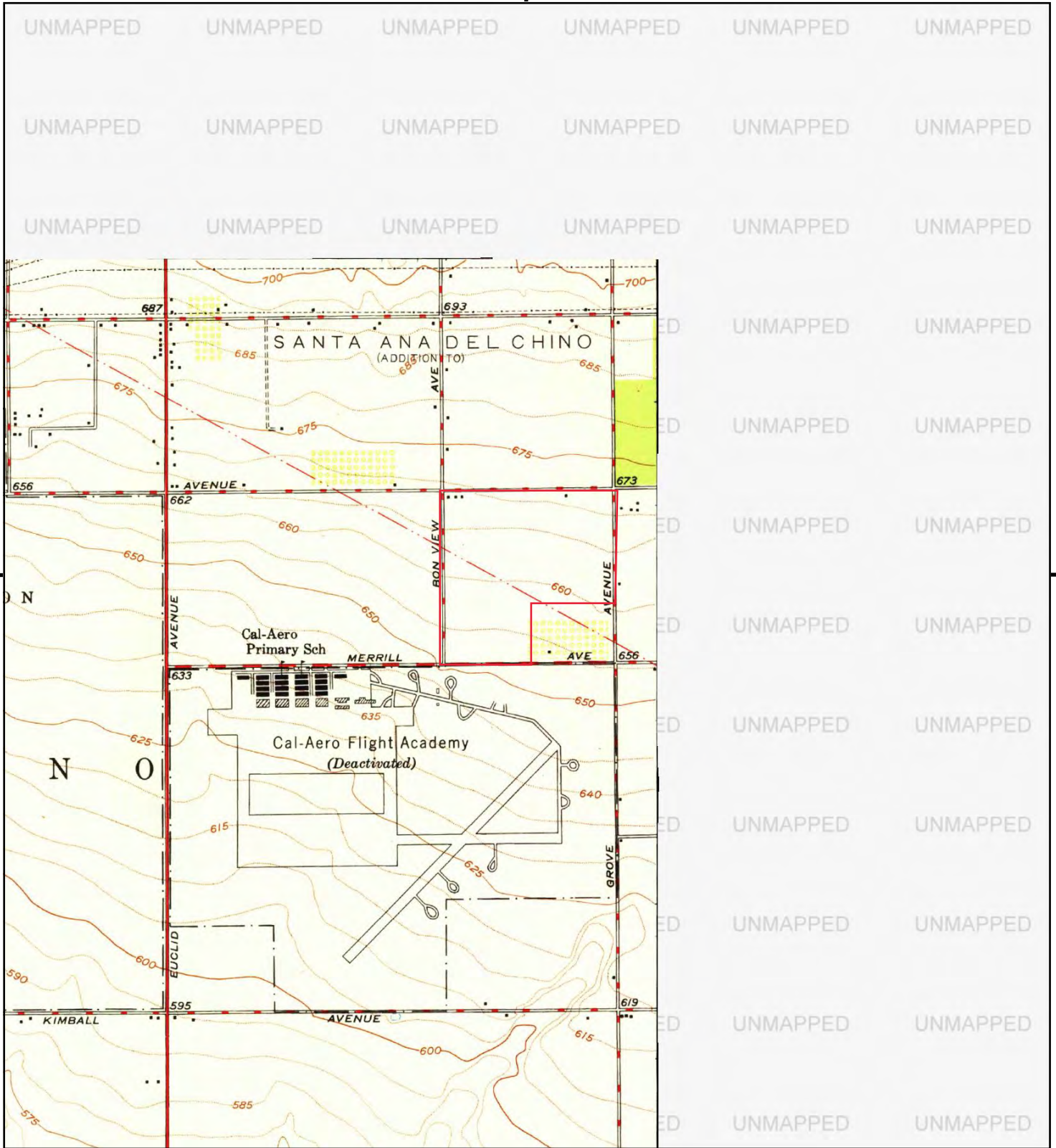
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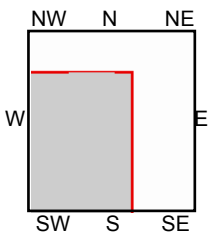
TP, Prado Dam, 1950, 7.5-minute  
 NE, Guasti, 1953, 7.5-minute  
 SE, Corona North, 1954, 7.5-minute  
 NW, Ontario, 1954, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants





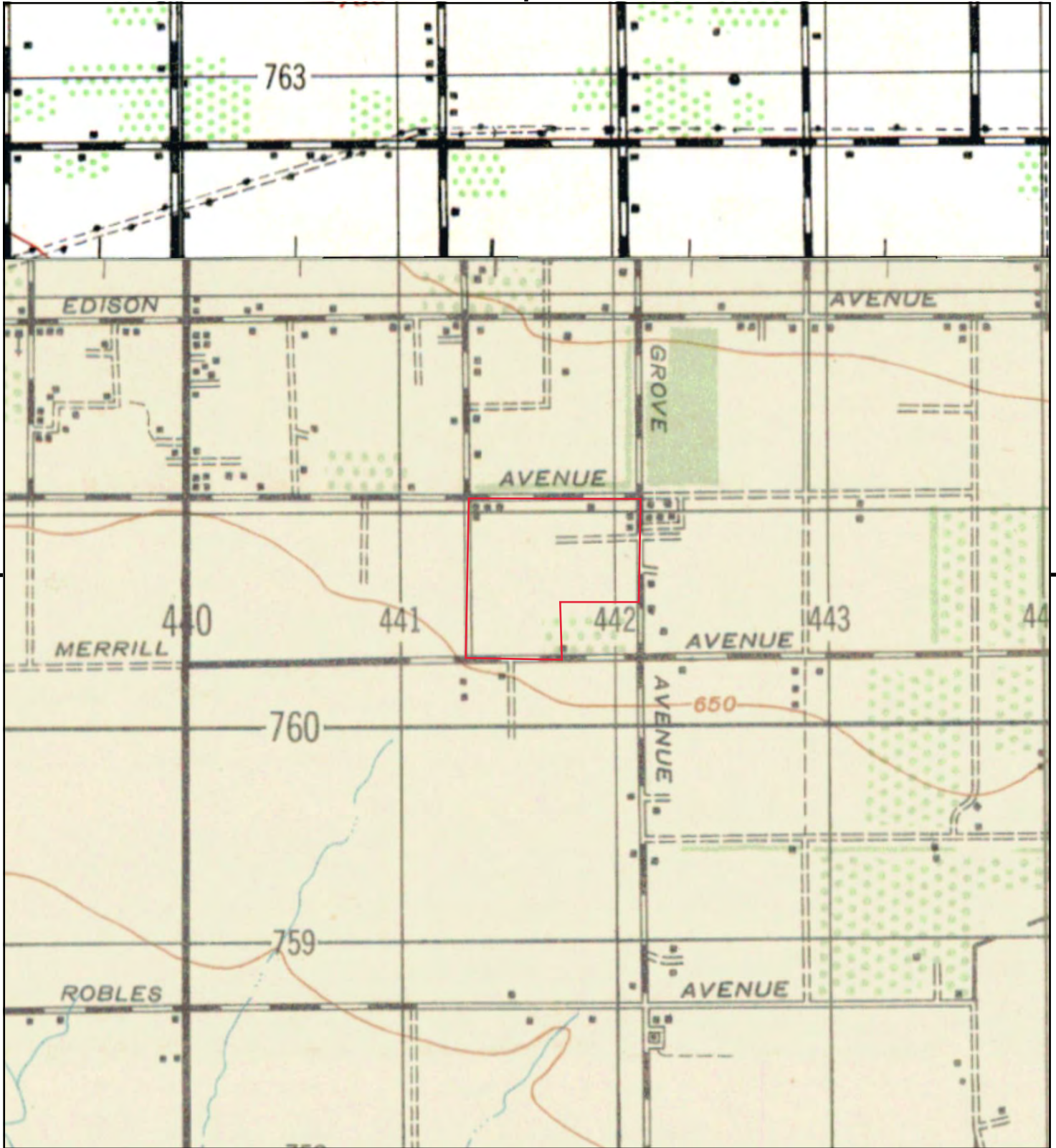
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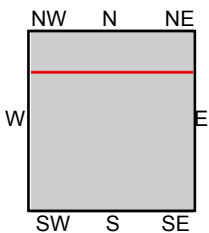
TP, Prado Dam, 1949, 7.5-minute

SITE NAME: George Borba Site  
 ADDRESS: Eucalyptus and Grove  
 Chino, CA 91710  
 CLIENT: Group Delta Consultants





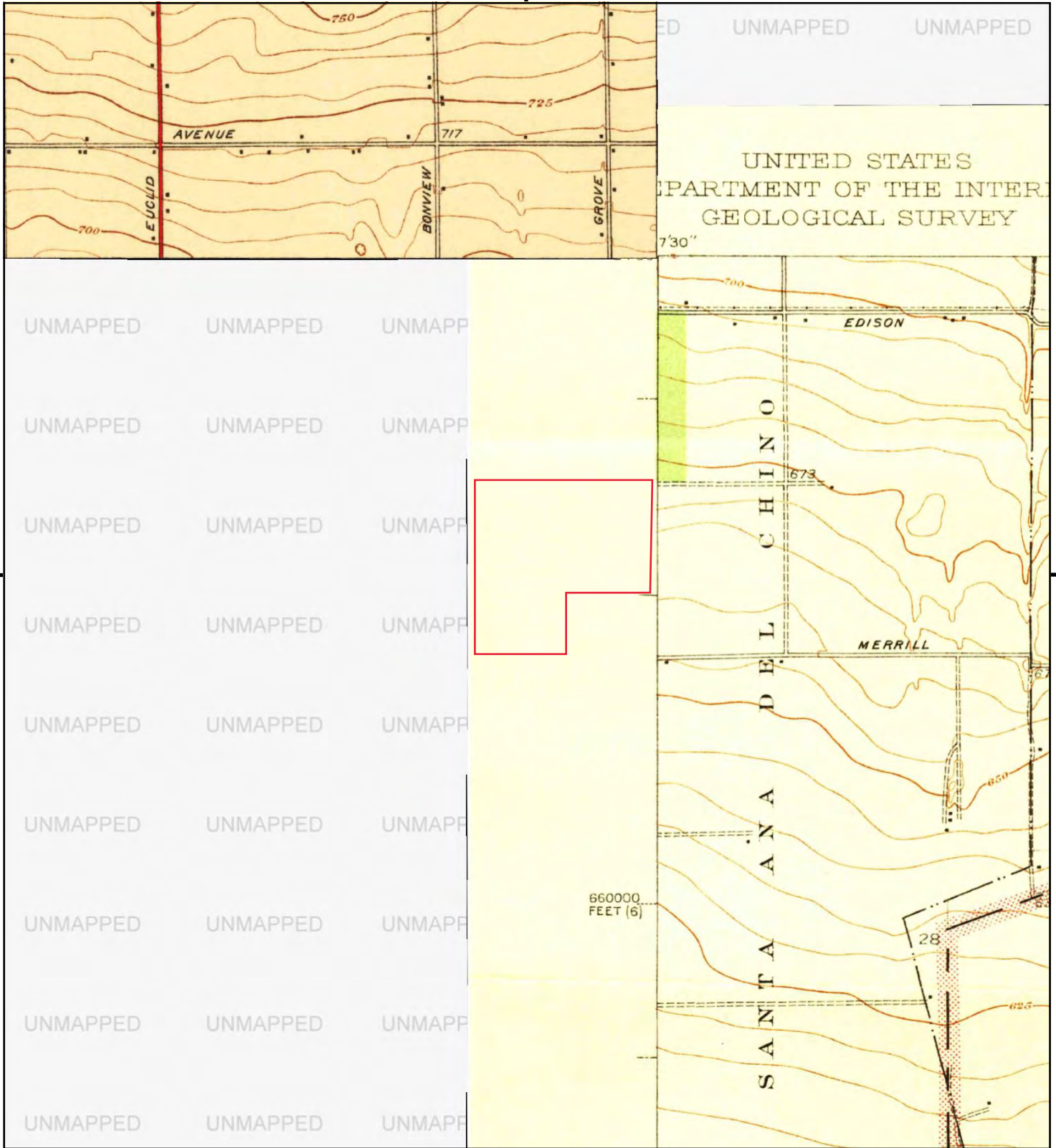
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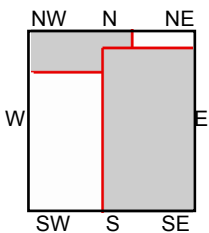
TP, CORONA, 1947, 15-minute  
N, CUCAMONGA, 1944, 15-minute

SITE NAME: George Borba Site  
ADDRESS: Eucalyptus and Grove  
Chino, CA 91710  
CLIENT: Group Delta Consultants





This report includes information from the following map sheet(s).



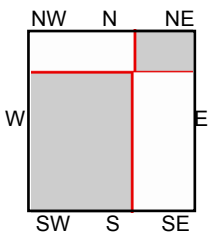
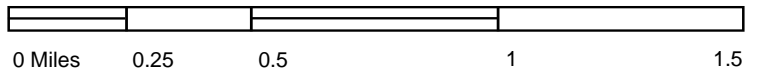
SE, Corona and Vicinity, 1942, 7.5-minute  
 NW, Ontario and Vicinity, 1942, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants





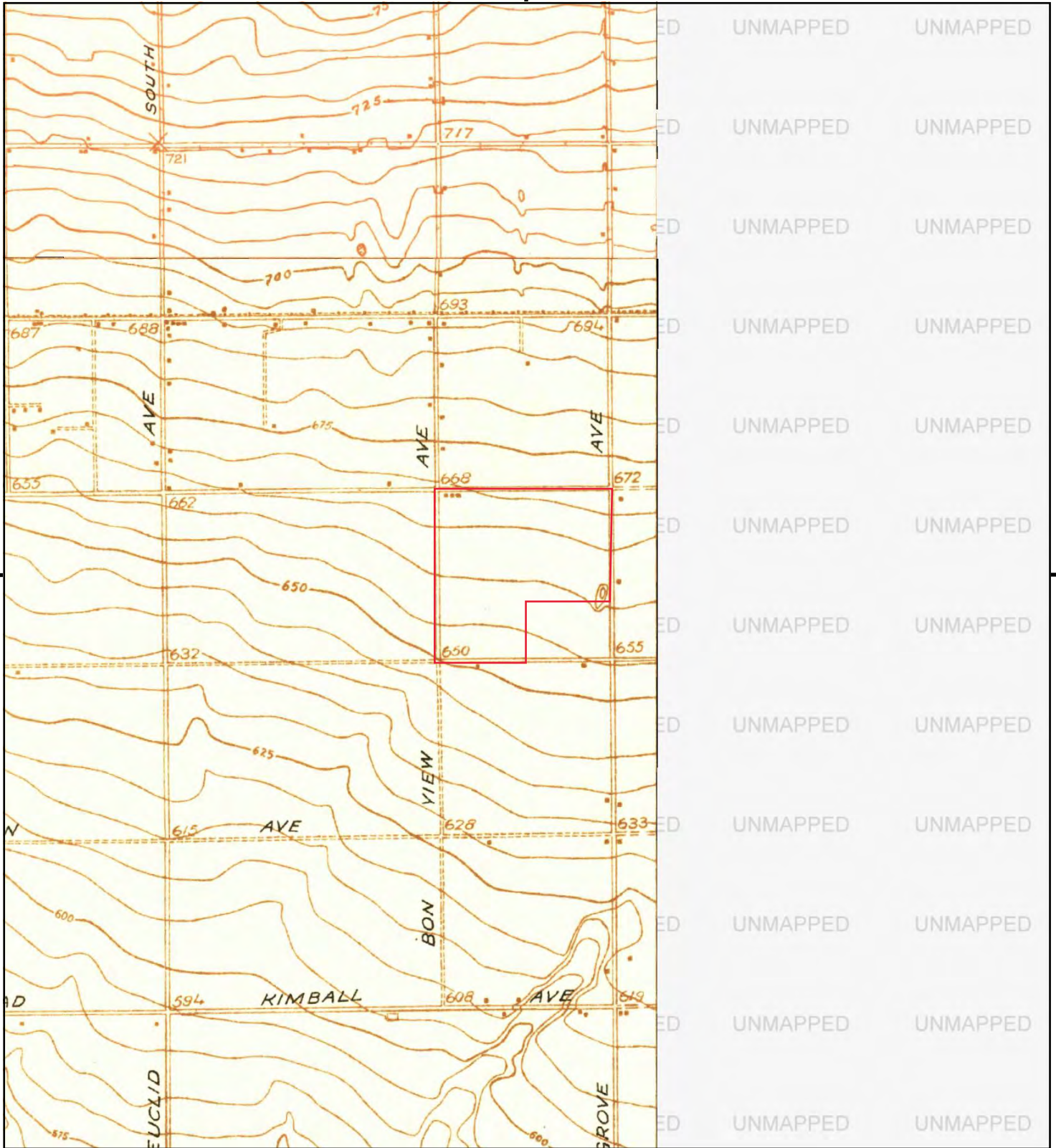
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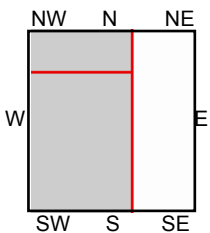
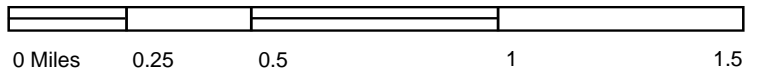
TP, Prado, 1941, 7.5-minute  
 NE, GUASTI VICINITY, 1941, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
 Chino, CA 91710  
**CLIENT:** Group Delta Consultants





This report includes information from the following map sheet(s).



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NW, Ontario, 1933, 7.5-minute

**SITE NAME:** George Borba Site  
**ADDRESS:** Eucalyptus and Grove  
Chino, CA 91710  
**CLIENT:** Group Delta Consultants

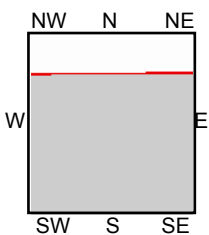
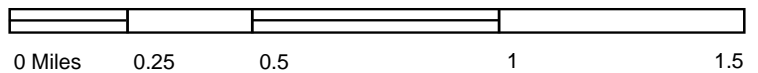




UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED



This report includes information from the following map sheet(s).



TP, Corona, 1902, 30-minute

SITE NAME: George Borba Site  
 ADDRESS: Eucalyptus and Grove  
 Chino, CA 91710  
 CLIENT: Group Delta Consultants



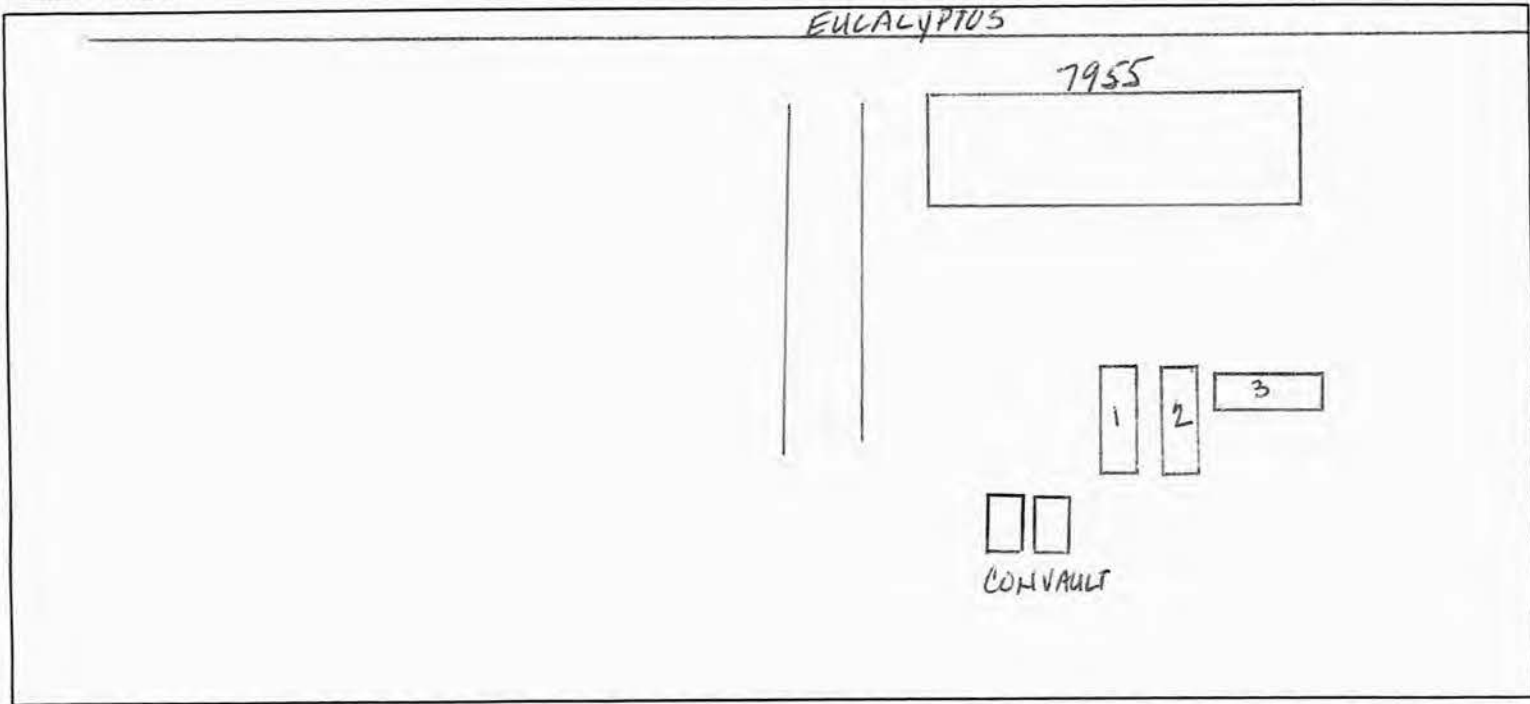
***APPENDIX D***

***REGULATORY DATABASE REVIEW MAPS***

---

TANK #	SIZE	MATERIAL HELD	UL #	APPEARANCE (RUSTY, HOLED, SOUND, ETC.)
1	1000	GAS		
2	1000	DIESEL		
3	1000	GAS		

FACILITY MAP:



SAMPLE #	DATE/TIME	DESCRIPTION (color / soil / odor)	LOCATION	DEPTH	EPA TEST # 'S
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					

SAMPLES TAKEN BY \_\_\_\_\_ LABORATORY \_\_\_\_\_  
CONTAINER \_\_\_\_\_ LABELS \_\_\_\_\_ SPLITS \_\_\_\_\_ HEADSPACE \_\_\_\_\_ SEALS \_\_\_\_\_  
REFRIGERATED \_\_\_\_\_ CHAIN OF CUSTODY \_\_\_\_\_ OTHER \_\_\_\_\_

REQUIRED EPA TESTS:  
Gasoline: 8020 (BTEX) & 8015 (TRPH - modified for gas)  
Diesel: 8015 (modified for diesel) or 418.1  
Solvents/HVO's: 8010  
Waste Oil: 418.1 (with 8010 if solvents contamination is suspect)  
Metals: 7030 (Cd), 7190 (Cr), 7950 (Zn), 7420 (Pb), 7063 (As), 8080 (PCB), 9010 (CN's)  
Pesticides: 8080 (organo-Cl's), 8140 (N & P containi

NOTE:  
UGST'S ≥1000 g require a minimum of 2 samples. One from the fill end and one from the turbine end. Also, a sample from the dispenser should be taken. Samples should be taken from at least 2' below native soil (not fill). If discoloration is noted in sidewalls, take samples there. And sample stockpiles if contamination is suspect. For piping, samples should be taken ± every 20' & at major connec

Eucalyptus Ave.

Hay field

Drive way

House

Garage

Drive way

Dairy Barn

Feed lot

Existing tanks  
 1 / 1,000 gal. Gas  
 1 / 1,000 gal. Diesel  
 1 / 1,000 gal. not used (gas)  
 Pumps sit on top of tanks.  
 Tanks to be removed  
 immediately after  
 AGT is installed

Pool

272'

5' Block wall

AGTank site

46' Gravel

80'

5' fence Four rows of 1/2 inch wire cable horizontally

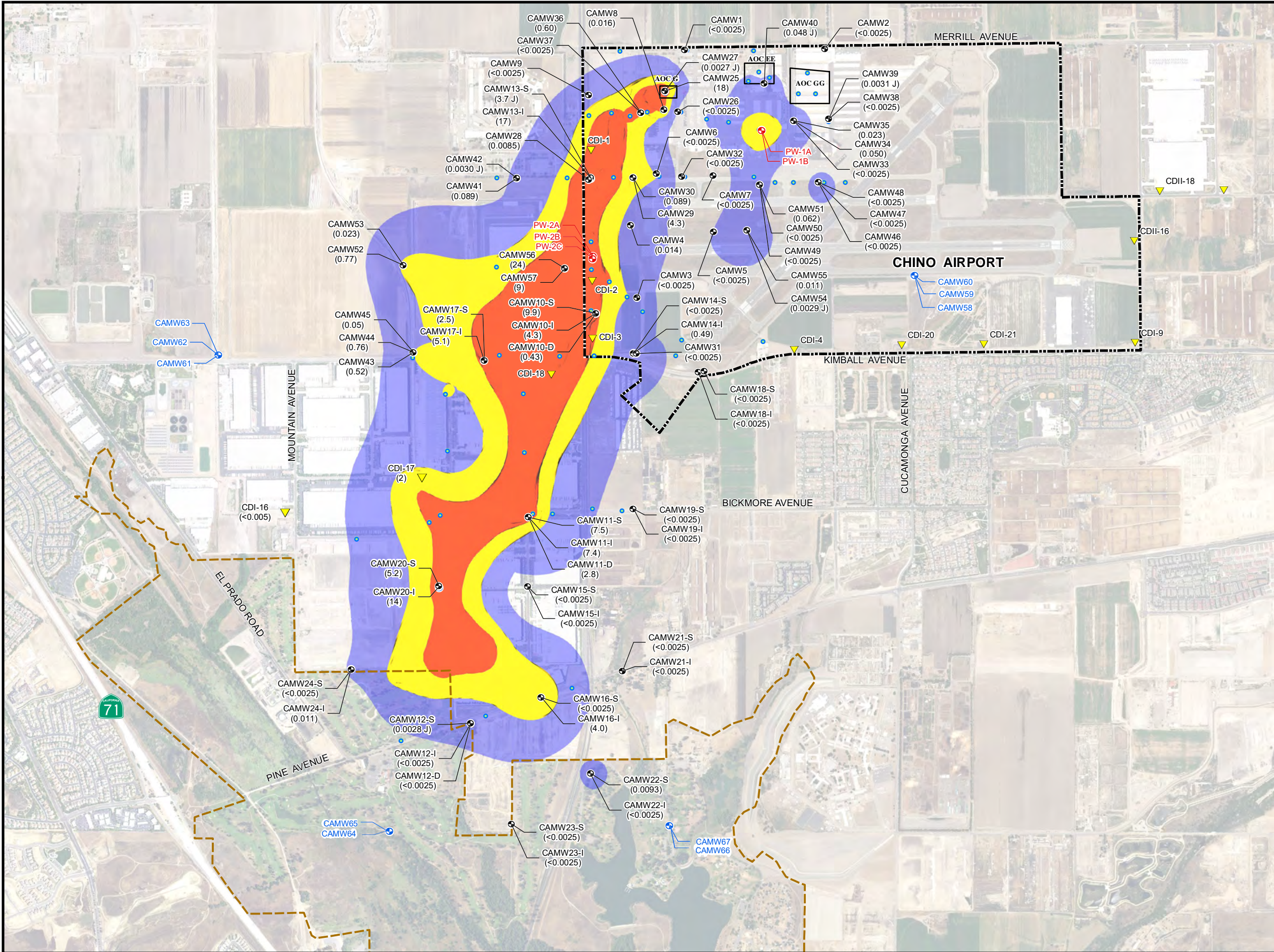
Cattle feeding lot


EXISTING POWER POLE FOR  
 FUELING SYSTEM, WILL MOUNT  
 EMERGENCY SWITCH ON POLE  
 WITH PROPER SIGNAGE.  
 THE DISTANCE IS 40 FT. FROM THE  
 EAST DISPENSER ON THE TANK

Feed storage bldg.









SCALE IN. = 40 FT.

<b>SPEKTRUM ENGINEERING</b>	DRAWN BY: H. HANSEN	4
	DATE: 1 / 12 / 98	
	APPROVER:	
	SCALE: JOB NO. SHEET NO.	
George Borba and Son Dairy 7955 Eucalyptus Ave. Chino, CA 91710 Ph 909-597-2568		
# 2 SALT SPRAY LAGUNA NIGUEL, CA 92677		
PH. 714-495-3095 FAX 714-495-2899		

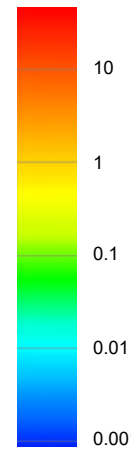




0 1,500 Feet

-  Monitoring Well (concentration in µg/L)
-  Desalter Well
-  Proposed Monitoring Well Cluster
-  Proposed Pumping Well/Piezometer Cluster
-  Temporary Groundwater Sampling Point
-  Prado Regional Park Boundary
-  AOC Boundary
-  Chino Airport Boundary


1,2,3-TCP Concentration (µg/L)



Notes:  
 TCP - Trichloropropane  
 Plume limits defined to 0.005 µg/L, the notification level for 1,2,3-TCP.  
 Historical analyte results with values less than lab detection limits were set to 0.0008 for contouring purposes.

**CHINO AIRPORT**

**Figure 3**  
**Proposed Well Locations with 1,2,3-TCP at 0.005 µg/L, 0.5 µg/L, and 5 µg/L Isoconcentrations (data from Fall 2016)**



TETRA TECH

June 2017

**APPENDIX G**  
**HYDROLOGY REPORTS**

**APPENDIX G1**  
**PRELIMINARY HYDROLOGY CALCULATIONS**

**PRELIMINARY HYDROLOGY  
CALCULATIONS**

FOR

**SOUTH ONTARIO LOGISTICS CENTER  
NORTHEAST CORNER OF MERRILL AVE & BON VIEW AVE  
ONTARIO, CALIFORNIA**

PREPARED FOR

**REDA  
4450 MACARTHUR BLVD, SUITE 100  
NEWPORT BEACH, CA 92660  
PHONE: (949) 216-7300  
FAX: (949) 724-1433**

**JULY 3, 2018  
REVISED: AUGUST 16, 2019  
REVISED: DECEMBER 14, 2020**

**JOB NO. 3654**

PREPARED BY

**THIENES ENGINEERING  
14349 FIRESTONE BOULEVARD  
LA MIRADA, CALIFORNIA 90638  
(714) 521-4811**



**PRELIMINARY HYDROLOGY  
CALCULATIONS**

**FOR**

**SOUTH ONTARIO  
LOGISTICS CENTER**

PREPARED BY RICKY HWA  
UNDER THE SUPERVISION OF

---

REINHARD STENZEL      DATE:  
R.C.E. 56155  
EXP. 12/31/22

## INTRODUCTION

### A: PROJECT LOCATION

The project site is located at the northeast corner of Merrill Avenue and Bon View Avenue, south of Eucalyptus Avenue, west of Grove Avenue in the City of Ontario, California. Please see next page for vicinity map.

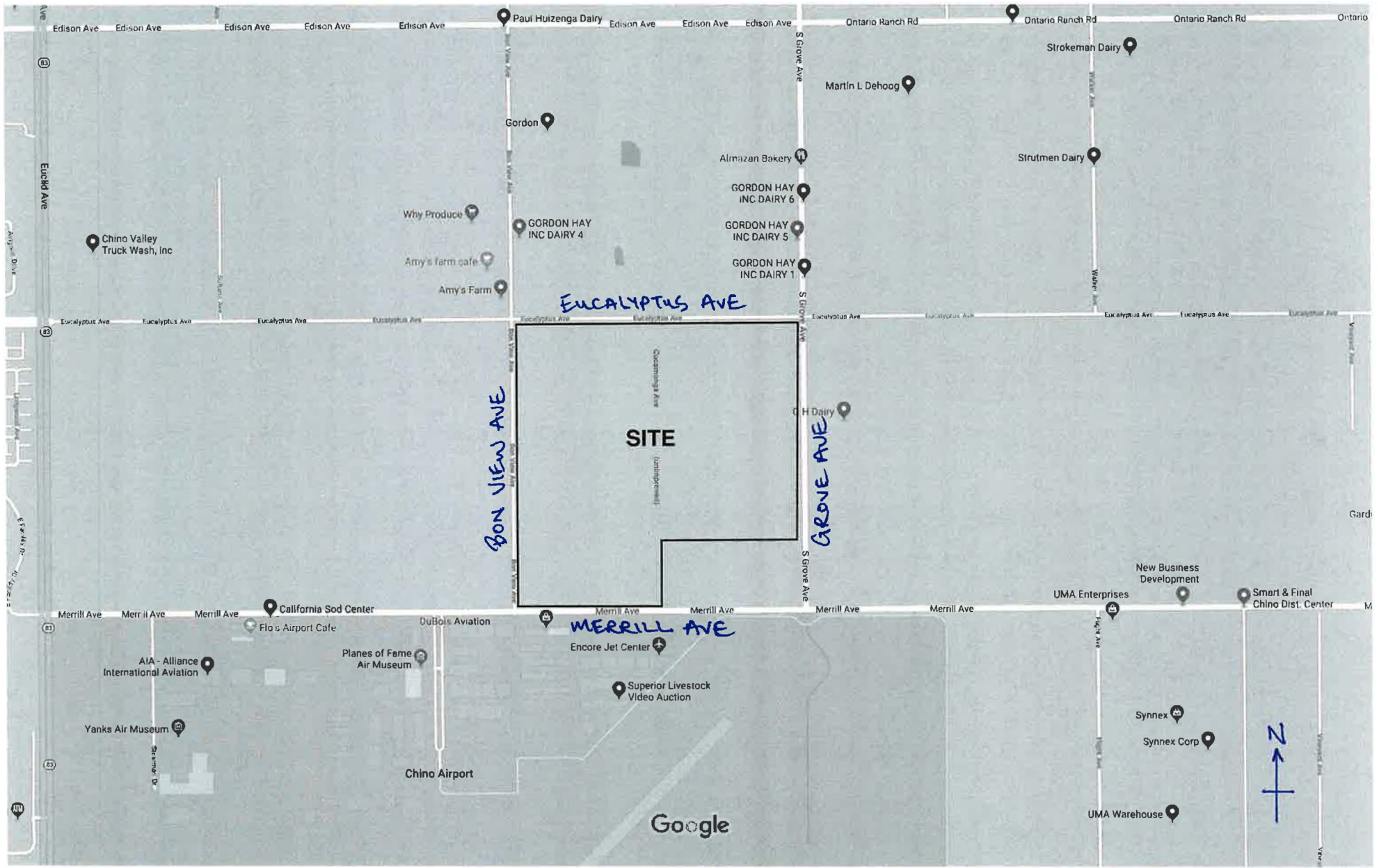
### B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition 100-year peak flow rates from the project site.

### C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel  
Ricky Hwa



VICINITY MAP

## DISCUSSION

The project site encompasses approximately 130.35 acres. Proposed improvements to the site include eight commercial type buildings ranging from 80,202 square feet to 1,268,446 square feet. There will be a truck yard and several vehicle parking lots adjacent to each building. Proposed landscaping will be along the site's property lines and scattered throughout the site.

### Master Plan Hydrology

Per the City of Ontario's Master Plan of Drainage dated March 2012 by Hunsaker & Associates, the westerly two-thirds of the project site is tabled to a proposed 102" RCP master plan storm drain in Bon View Avenue (BNVW-XIV-1), which drains southerly to a proposed 9.5' by 9.5' RCB Master Plan storm drain in Merrill Avenue (MERL-XIV-1), which drains westerly to an existing dirt channel in Euclid Avenue. The easterly one-third of the site is tabled to another proposed public storm drain in Grove Avenue (GROV-XIII-1), a 120" RCP that drains southerly to the Chino Airport.

Although the above mentioned Master Plan storm drains will be constructed separately from proposed site improvements, the ultimate discharge location downstream in Euclid Avenue will not be fully improved. The existing earthen channel adjacent to Euclid Avenue south of Merrill Avenue, downstream of the proposed Merrill Avenue Master Plan storm drain, does not have the capacity to convey Master Plan peak flow rates. Therefore, proposed condition discharge from the project site to Euclid Avenue via proposed Master Plan storm drains will be limited to significantly below the existing condition 25-year runoffs from the site, with the remainder of the proposed condition 100-year runoff to be temporarily detained onsite.

Please see Appendix "A" for the City's Master Plan of Drainage and other pertinent reference materials.

### Existing Condition

The project site is currently used for agricultural and dairy purposes. Runoff from the site generally drains from north to south. There are several detention areas throughout the site.

The existing condition 100-year site runoff from the north and west portions of the site (Nodes 100-205, 95.45 acres), tributary to Merrill Avenue via the south-westerly detention basin, is approximately 101.7 cfs. The existing condition 100-year site runoff from the southeast portion of the site (Nodes 300-304, 30.80 acres) tributary to Merrill Avenue is approximately 39.6 cfs, resulting in a total 141.3 cfs from the site tributary to Merrill Avenue.

The easterly portion of the project site (Nodes 400-402, 4.15 acres) adjacent to Grove Avenue surface drains to Grove Avenue. The existing condition 100-year runoffs from this portion of the site is 5.8 cfs.

See Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition hydrology map.

### Proposed Condition

Buildings 4, 5, 6, 7 and 8 at the project site's northerly end (Nodes 100-192, 20.85 acres) drain to catch basins in each building's truck yard and parking lots. Runoff is then conveyed westerly via a proposed onsite storm drain to the proposed 102" RCP master plan storm drain in Bon View Avenue, which is tributary to the existing dirt channel in Euclid Avenue. The proposed condition 100-year peak flow rate from Buildings 4 through 8 are approximately 53.9 cfs.

For the remainder of the site, Buildings 1, 2 and 3 (Nodes 200-282, 106.45 acres) drain to catch basins in each building's truck yards and parking lots. Runoff is then conveyed southerly, then westerly, via another onsite storm drain system to the same proposed 102" RCP in Bon View Avenue. The proposed condition 100-year peak flow rate from Buildings 1 through 3 are approximately 236.2 cfs.

The total proposed condition 100-year peak flow rate from the site to the proposed 102" RCP in Bon View Avenue – and ultimately, to the existing dirt channel in Euclid Avenue – is approximately 290.1 cfs.

The landscape frontage east of Building 2 (0.50 acres) will surface drain easterly to Grove Avenue. The entry driveway west of Building 4 (0.30 acres), plus the landscape frontage and entry driveway west of Building 1 (0.85 acres), will surface drain westerly to Bon View Avenue. Lastly, the entry driveway southeast of Building 1 (0.25 acres), plus the landscape frontage and entry driveways south of Building 1 (1.15 acres), will surface drain southerly to Merrill Avenue.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

### Detention

The total proposed 100-year peak flow rate from the project site (236.2 cfs) is higher than the existing condition 100-year runoff (141.3 cfs). Runoffs tributary to onsite truck yards will be sufficiently detained such that the overall proposed condition 100-year discharge from the site to the existing dirt channel in Euclid Avenue will be significantly below the existing condition 100-year discharge. Runoffs from the parking lot west of Building 4 (1.5 cfs over 0.45 acres), the frontage landscape north of Building 4 (1.0 cfs over 0.35 acres),

and parking lots south of Building 1 (18.0 cfs over 7.70 acres), will be allowed to discharge undetained.

See Appendix “C” for detention calculations for each onsite truck yard. The following is a summary of required detention volume and post-detention 100-year discharge for each truck yard.

Truck Yard	Node	Area	Volume	Ponding Depth	Q100 Tributary	Q100 Discharge
Building 1 West	281	23.35 ac.	4.136 ac-ft	1.46 ft	58.0 cfs	4.1 cfs
Building 1 East	261	23.40 ac.	4.152 ac-ft	1.46 ft	62.3 cfs	4.2 cfs
Building 2 North	205	15.00 ac.	2.554 ac-ft	1.74 ft	38.4 cfs	2.8 cfs
Building 2 South	216	15.55 ac.	1.716 ac-ft	1.58 ft	36.0 cfs	4.3 cfs
Building 3	241	21.45 ac.	3.292 ac-ft	1.90 ft	51.6 cfs	4.5 cfs
Building 4	182	3.55 ac.	0.178 ac-ft	1.07 ft	9.6 cfs	1.4 cfs
Building 5	171	4.10 ac.	0.249 ac-ft	1.12 ft	11.3 cfs	1.4 cfs
Building 6	151	4.00 ac.	0.142 ac-ft	0.90 ft	11.1 cfs	2.3 cfs
Building 7	131	3.75 ac.	0.206 ac-ft	1.04 ft	10.7 cfs	1.4 cfs
Building 8	112	4.65 ac.	0.175 ac-ft	0.97 ft	12.2 cfs	2.4 cfs

Total Q100 Discharge from truck yards = 28.8 cfs

With onsite detention, the total proposed condition 100-year discharge from the project site to the existing dirt channel in Euclid Avenue, via proposed onsite storm drains and proposed master plan storm drains in Bon View Avenue and Merrill Avenue, will be approximately 49.3 cfs (28.8 cfs from truck yards + 1.5 cfs from parking lot west of Building 4 + 1.0 cfs from frontage landscape north of Building 4 + 18.0 cfs from parking lots south of Building 1). This is significantly less than the existing condition 100-year discharge (141.3 cfs) from the site to Merrill Avenue.

Proposed onsite storm drains will be sized during the project’s final design phase to restrict site discharge such that there will be no negative impact on existing downstream drainage facilities.

### Methodology

Hydrology calculations were computed using the San Bernardino County Rational Method program (by AES Software). The soil type is “A” for the northeast corner of the project site, “B” for the westerly half of the site, and “C” for the remainder of the site per the San Bernardino County Hydrology Manual. See Appendix “A” for pertinent reference materials.

APPENDIX

DESCRIPTION

A	REFERENCE MATERIAL
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAPS

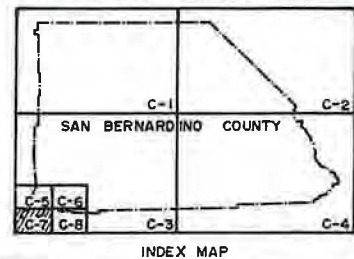
# **APPENDIX A**

## **REFERENCE MATERIALS**





**SAN BERNARDINO COUNTY**  
**HYDROLOGY MANUAL**

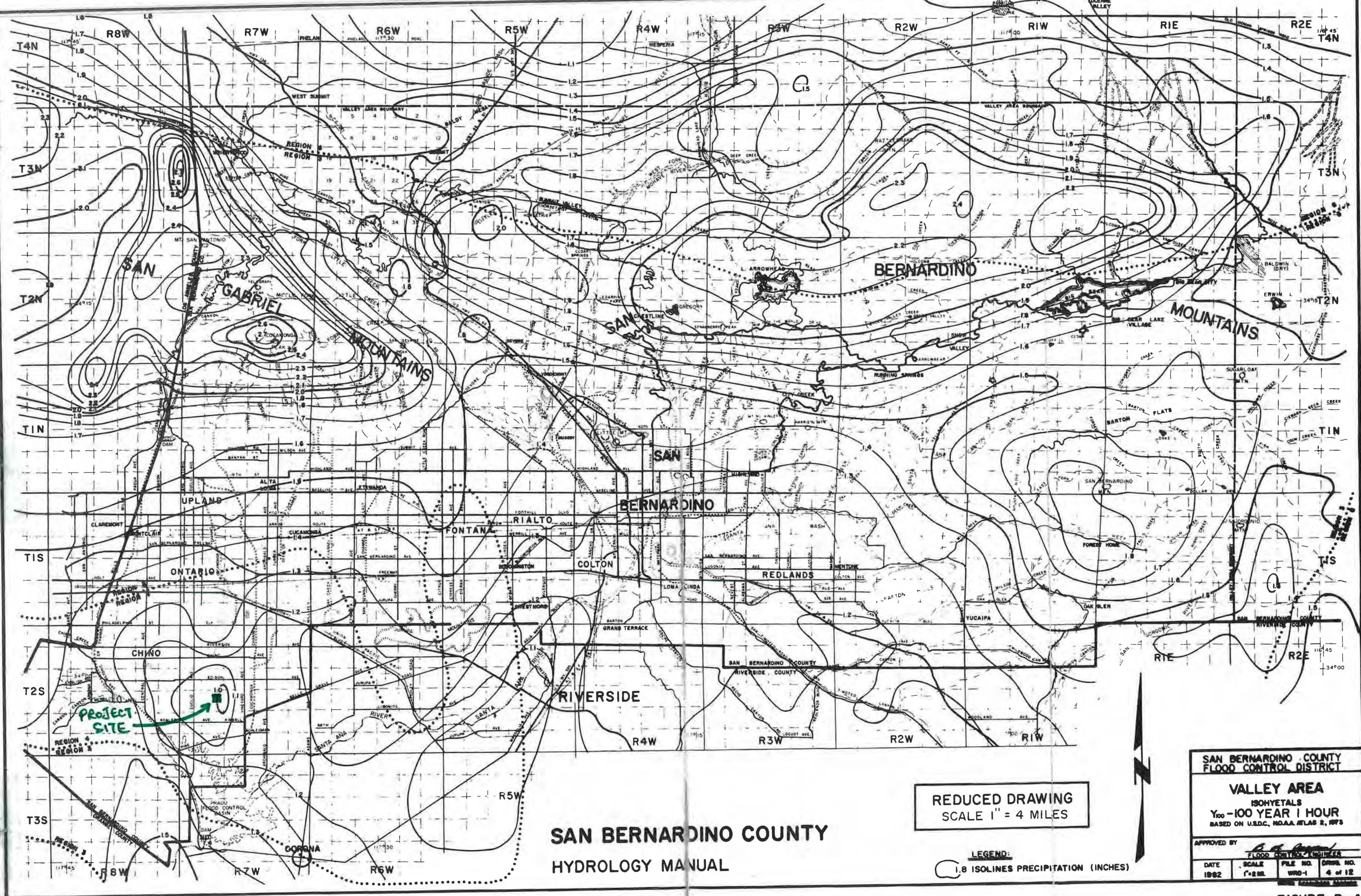


- LEGEND
- SOIL GROUP BOUNDARY
  - A SOIL GROUP DESIGNATION
  - BOUNDARY OF INDICATED SOURCE

SCALE REDUCED BY 1/2

SCALE 1:48,000

**HYDROLOGIC SOILS GROUP MAP**  
**FOR**  
**SOUTHWEST-C AREA**



**SAN BERNARDINO COUNTY  
HYDROLOGY MANUAL**

**REDUCED DRAWING  
SCALE 1" = 4 MILES**

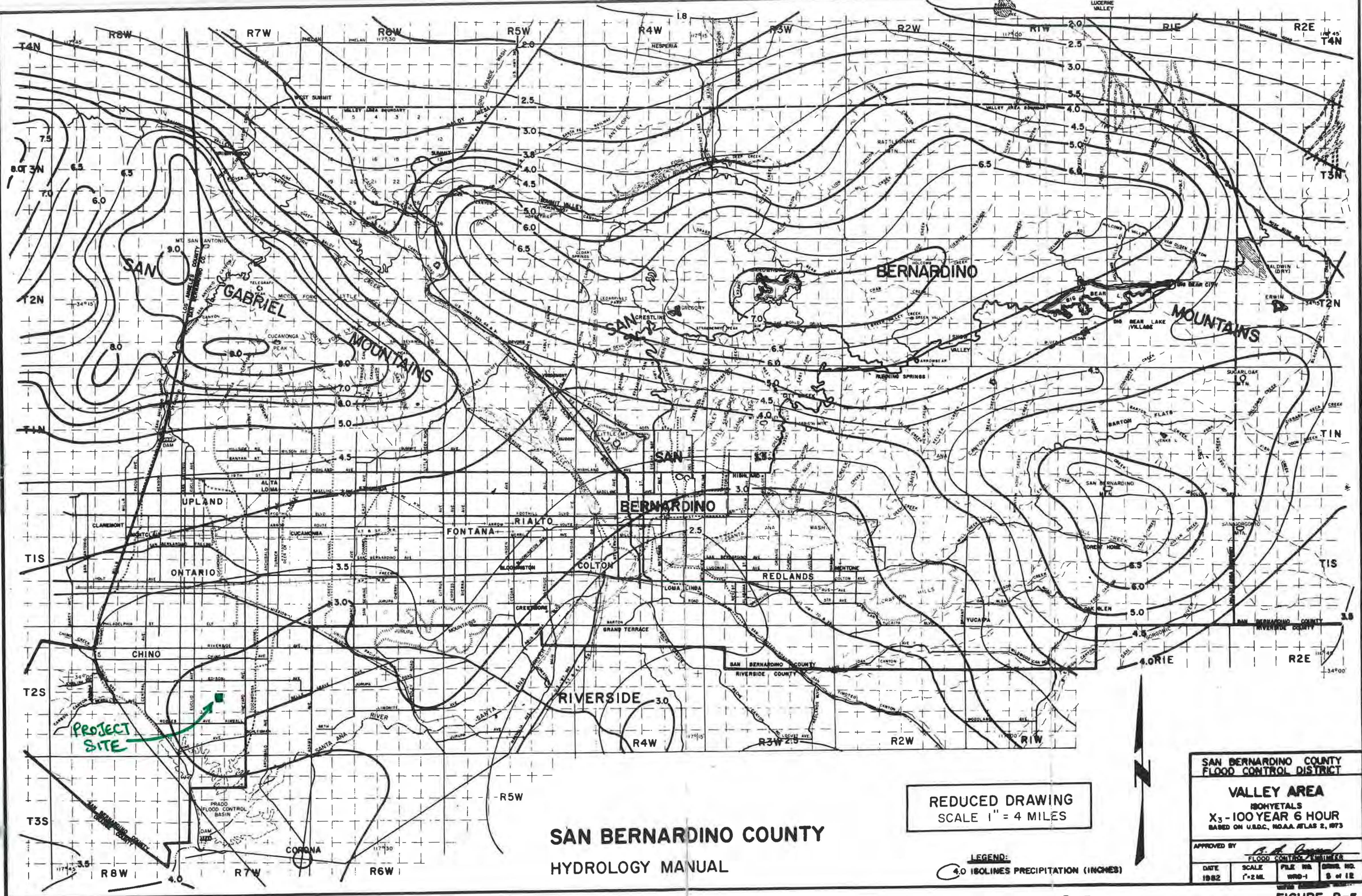
**LEGEND:**  
1.8 ISOLINES PRECIPITATION (INCHES)

**SAN BERNARDINO COUNTY  
FLOOD CONTROL DISTRICT**

**VALLEY AREA  
ISOHYETALS  
Y<sub>100</sub> - 100 YEAR 1 HOUR  
BASED ON U.S.D.C. NOAA ATLAS 2, 1973**

APPROVED BY *[Signature]*  
FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	GRAPH NO.
1982	1"=4M.	WRD-1	4 of 12

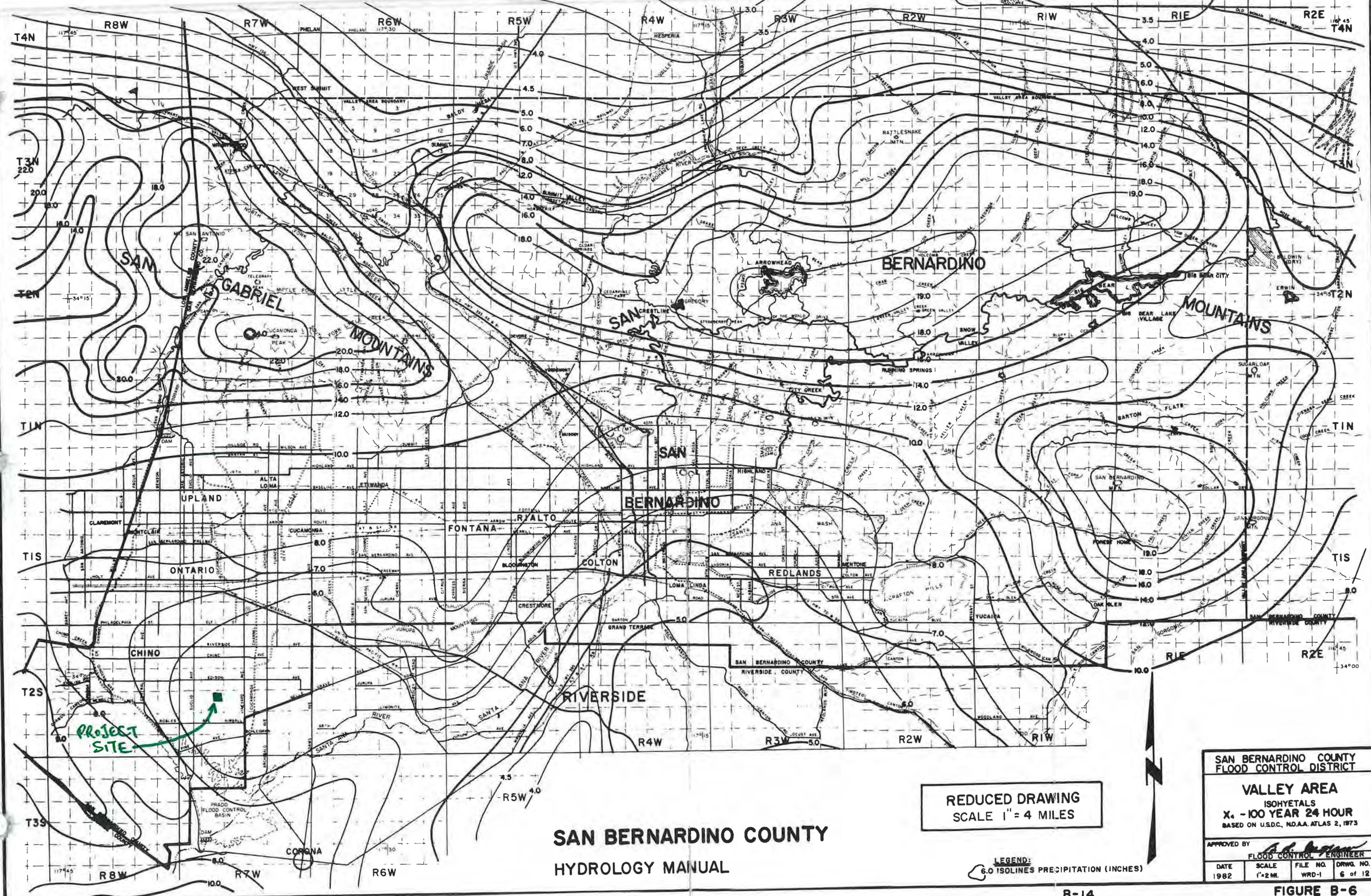


**SAN BERNARDINO COUNTY  
HYDROLOGY MANUAL**

**REDUCED DRAWING  
SCALE 1" = 4 MILES**

**LEGEND:**  
4.0 ISOHYALS PRECIPITATION (INCHES)

<b>SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT</b>			
<b>VALLEY AREA</b>			
ISOHYETALS			
<b>X3 - 100 YEAR 6 HOUR</b>			
BASED ON U.S.D.C. NOAA ATLAS 2, 1973			
APPROVED BY <i>[Signature]</i>			
FLOOD CONTROL DISTRICT			
DATE	SCALE	FILE NO.	SHEET NO.
1982	1" = 4 MILES	WFD-1	8 of 12



**SAN BERNARDINO COUNTY  
HYDROLOGY MANUAL**

**REDUCED DRAWING  
SCALE 1" = 4 MILES**

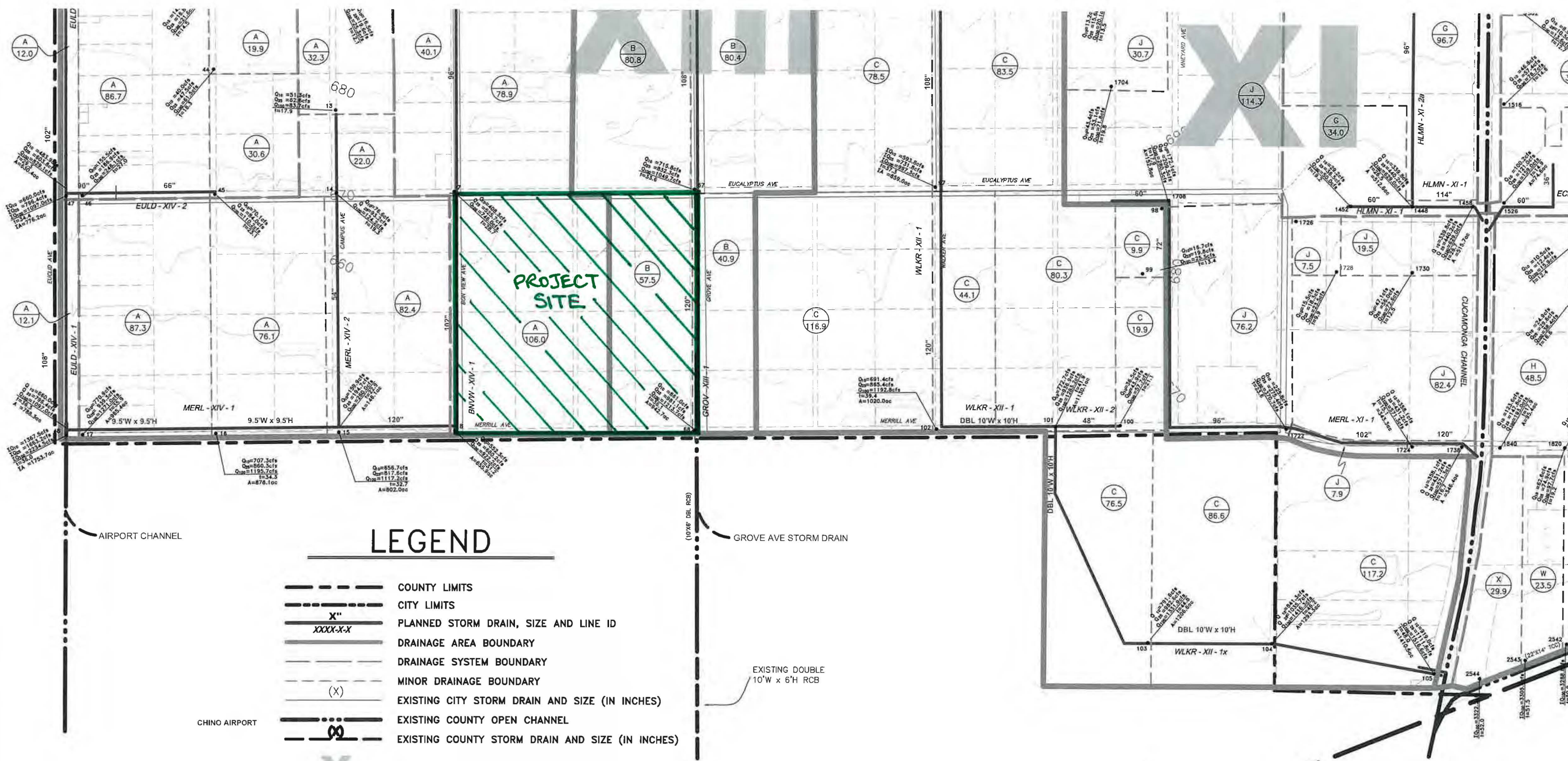
**LEGEND:**  
6.0 ISOLINES PRECIPITATION (INCHES)

**SAN BERNARDINO COUNTY  
FLOOD CONTROL DISTRICT**

**VALLEY AREA  
ISOHYETALS  
X<sub>4</sub> - 100 YEAR 24 HOUR  
BASED ON U.S.D.C. NO. AA ATLAS 2, 1973**

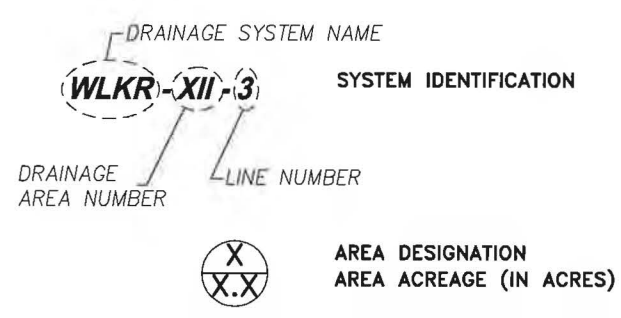
APPROVED BY *[Signature]*  
FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 MI.	WRD-1	6 of 12



# LEGEND

- COUNTY LIMITS
- CITY LIMITS
- PLANNED STORM DRAIN, SIZE AND LINE ID
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- MINOR DRAINAGE BOUNDARY
- EXISTING CITY STORM DRAIN AND SIZE (IN INCHES)
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES)
- DRAINAGE AREA #

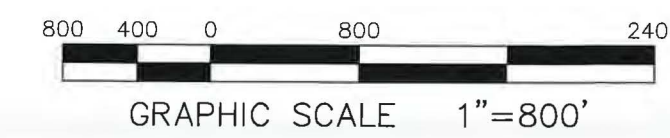
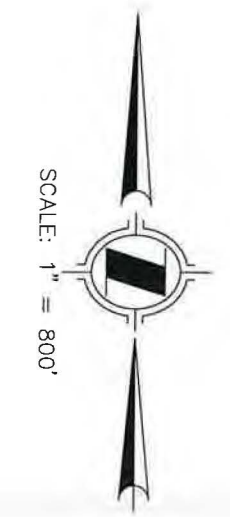


**PEAK FLOW RATE**  
 $Q_{10} = 861.0\text{cfs}$   
 $Q_{25} = 981.1\text{cfs}$   
 $Q_{100} = 1213.7\text{cfs}$

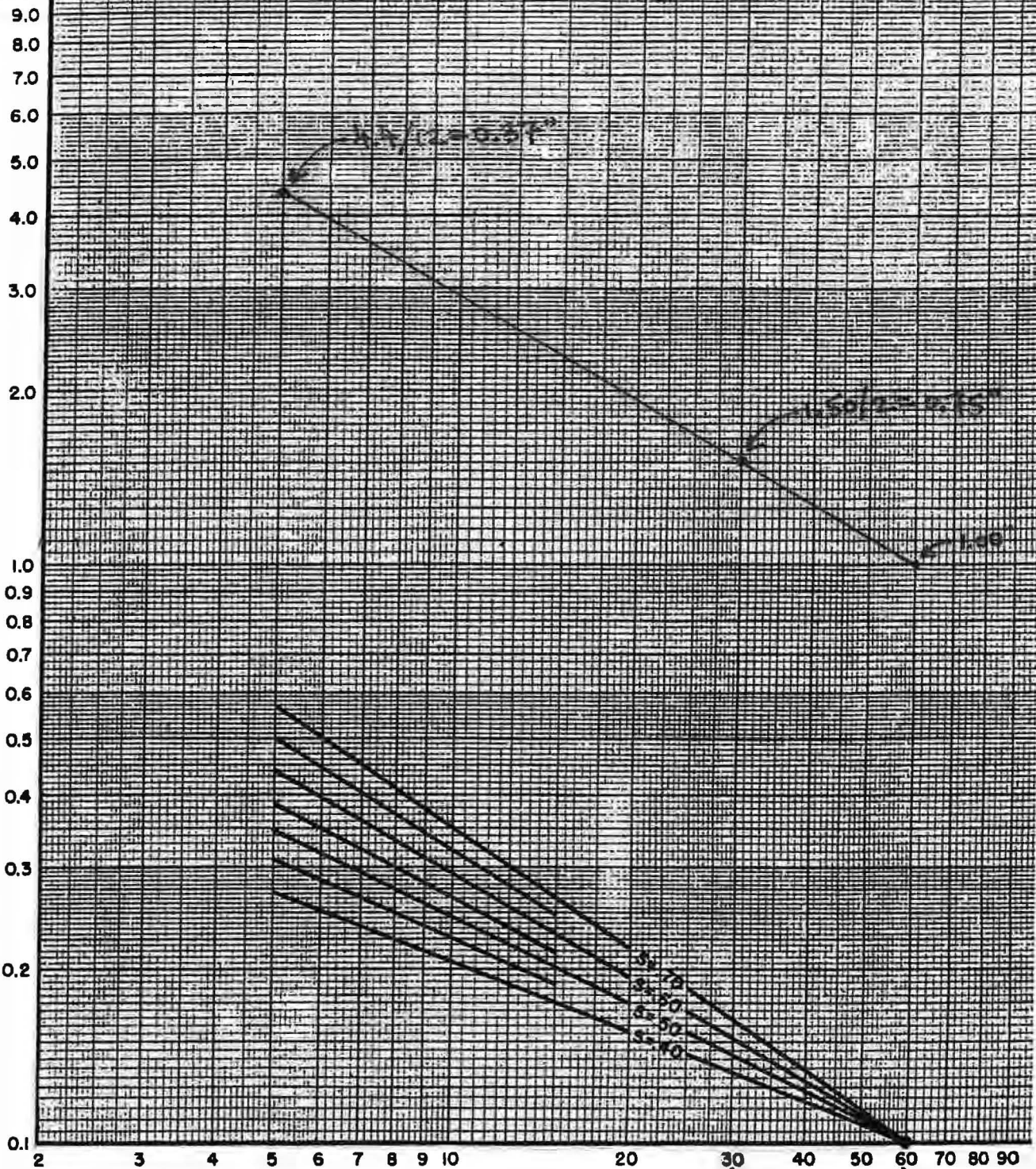
**TIME OF CONCENTRATION**  
 $t = 36.1$

**AREA**  
 $A = 942.7\text{ac}$

EXISTING DOUBLE  
10'W x 6'H RCB



RAINFALL INTENSITY (INCHES / HOUR)



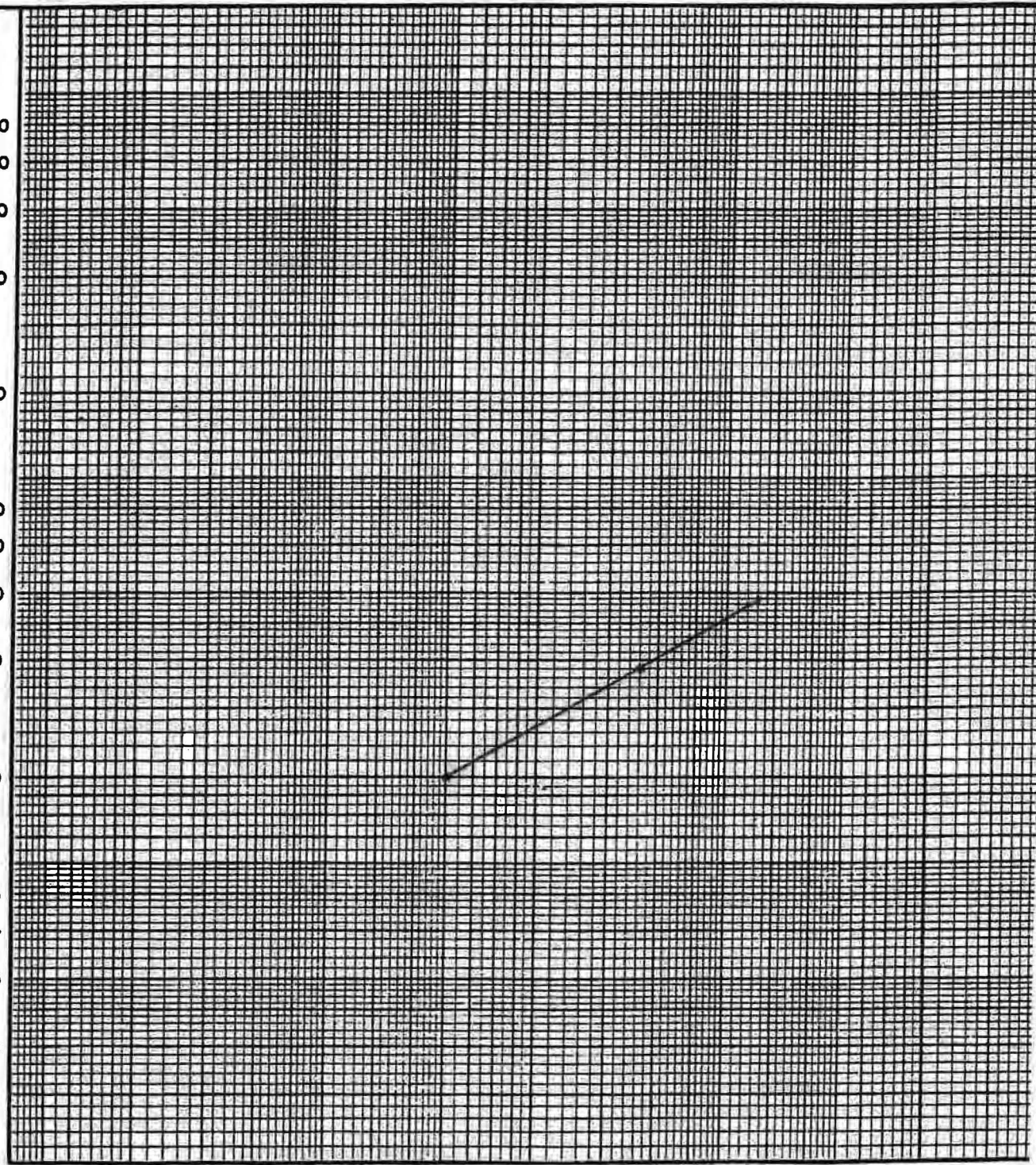
DESIGN STORM FREQUENCY = 100 YEARS  
 ONE HOUR POINT RAINFALL = 1.00 INCHES  
 LOG-LOG SLOPE = 0.60  
 PROJECT LOCATION = MERRILL AVE & GROVE AVE, ONTARIO

**SAN BERNARDINO COUNTY**  
 HYDROLOGY MANUAL

**INTENSITY - DURATION  
 CURVES  
 CALCULATION SHEET**

POINT RAINFALL - INCHES

50.0  
40.0  
30.0  
20.0  
10.0  
5.0  
4.0  
3.0  
2.0  
1.0  
0.5  
0.4  
0.3  
0.2  
0.1



5 10 20 30 40 50 100 200 300 400 500 1000  
1 HR 1.00"  
3 HR 1.90"  
6 HR 2.90"  
STORM DURATION - MINUTES

PROJECT LOCATION MERRILL AVE & GROVE AVE, ONTARIO

NOTES \_\_\_\_\_

# **APPENDIX B**

## **HYDROLOGY CALCULATIONS**



EXISTING CONDITION

\*\*\*\*\*  
 RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE  
 (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)  
 (c) Copyright 1983-2016 Advanced Engineering Software (aes)  
 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

THIENES ENGINEERING, INC.  
 14349 FIRESTONE BLVD  
 LA MIRADA, CA 90638

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* EXISTING CONDITION 100-YEAR \*  
 \* NORTH AND WEST PORTIONS OF SITE TRIBUTARY TO MERRILL AVE \*  
 \*\*\*\*\*

FILE NAME: W:\3654\EX100A.DAT  
 TIME/DATE OF STUDY: 16:19 06/19/2018

=====

USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:

=====

--\*TIME-OF-CONCENTRATION MODEL\*--

USER SPECIFIED STORM EVENT(YEAR) = 100.00  
 SPECIFIED MINIMUM PIPE SIZE(INCH) = 12.00  
 SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
 \*USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL\*

SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000  
 USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

\*ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD\*

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	WIDTH (FT)	CROWN TO CROSSFALL (FT)	IN- / OUT- / PARK- SIDE / SIDE / WAY	HEIGHT (FT)	WIDTH (FT)	LIP (FT)	HIKE (FT)	FACTOR (n)
1	30.0	20.0	0.018/0.018/0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:  
 1. Relative Flow-Depth = 0.00 FEET  
 as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)  
 2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)  
 \*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
 OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*  
 \*USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 100.00 TO NODE 101.00 IS CODE = 21  
 -----

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 850.00  
 ELEVATION DATA: UPSTREAM(FEET) = 675.00 DOWNSTREAM(FEET) = 665.40

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 11.068  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.757  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
NATURAL POOR COVER "BARREN"	A	8.10	0.18	1.000	93	19.11
COMMERCIAL	A	0.35	0.74	0.100	52	11.07
NATURAL POOR COVER "BARREN"	C	0.35	0.06	1.000	98	19.11

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.18  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.964  
 SUBAREA RUNOFF(CFS) = 20.48  
 TOTAL AREA(ACRES) = 8.80 PEAK FLOW RATE(CFS) = 20.48

EX100A.RES

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 101.00 TO NODE 102.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 665.40 DOWNSTREAM(FEET) = 663.80  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 700.00 CHANNEL SLOPE = 0.0023  
 CHANNEL FLOW THRU SUBAREA(CFS) = 20.48  
 FLOW VELOCITY(FEET/SEC) = 1.44 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 8.09 Tc(MIN.) = 19.16  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 102.00 = 1550.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 101.00 TO NODE 102.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 19.16  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.984  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL POOR COVER "BARREN"	C	6.60	0.06	1.000	98
NATURAL POOR COVER "BARREN"	A	0.10	0.18	1.000	93

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.06  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 6.70 SUBAREA RUNOFF(CFS) = 11.58  
 EFFECTIVE AREA(ACRES) = 15.50 AREA-AVERAGED Fm(INCH/HR) = 0.12  
 AREA-AVERAGED Fp(INCH/HR) = 0.13 AREA-AVERAGED Ap = 0.98  
 TOTAL AREA(ACRES) = 15.5 PEAK FLOW RATE(CFS) = 25.93

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 102.00 TO NODE 103.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 663.80 DOWNSTREAM(FEET) = 662.50  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 350.00 CHANNEL SLOPE = 0.0037  
 CHANNEL FLOW THRU SUBAREA(CFS) = 25.93  
 FLOW VELOCITY(FEET/SEC) = 1.96 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 2.98 Tc(MIN.) = 22.14  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 103.00 = 1900.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 102.00 TO NODE 103.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 22.14  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.819  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL POOR COVER "BARREN"	C	7.65	0.06	1.000	98
RESIDENTIAL "1 DWELLING/ACRE"	C	0.30	0.27	0.800	86
NATURAL POOR COVER "BARREN"	A	3.40	0.18	1.000	93
RESIDENTIAL "1 DWELLING/ACRE"	A	1.10	0.74	0.800	52
COMMERCIAL	A	0.50	0.74	0.100	52

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.15  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.944  
 SUBAREA AREA(ACRES) = 12.95 SUBAREA RUNOFF(CFS) = 19.54  
 EFFECTIVE AREA(ACRES) = 28.45 AREA-AVERAGED Fm(INCH/HR) = 0.13  
 AREA-AVERAGED Fp(INCH/HR) = 0.14 AREA-AVERAGED Ap = 0.96  
 TOTAL AREA(ACRES) = 28.5 PEAK FLOW RATE(CFS) = 43.18

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 103.00 TO NODE 104.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<

>>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 662.50 DOWNSTREAM(FEET) = 661.00  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 375.00 CHANNEL SLOPE = 0.0040  
 CHANNEL FLOW THRU SUBAREA(CFS) = 43.18  
 FLOW VELOCITY(FEET/SEC) = 2.35 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 2.66 Tc(MIN.) = 24.80  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 104.00 = 2275.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 103.00 TO NODE 104.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 24.80  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.699  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL POOR COVER "BARREN"	C	7.05	0.06	1.000	98
NATURAL POOR COVER "BARREN"	B	1.75	0.11	1.000	97

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.07  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 8.80 SUBAREA RUNOFF(CFS) = 12.90  
 EFFECTIVE AREA(ACRES) = 37.25 AREA-AVERAGED Fm(INCH/HR) = 0.12  
 AREA-AVERAGED Fp(INCH/HR) = 0.12 AREA-AVERAGED Ap = 0.97  
 TOTAL AREA(ACRES) = 37.2 PEAK FLOW RATE(CFS) = 53.01

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 104.00 TO NODE 113.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 661.00 DOWNSTREAM(FEET) = 660.10  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 775.00 CHANNEL SLOPE = 0.0012  
 CHANNEL FLOW THRU SUBAREA(CFS) = 53.01  
 FLOW VELOCITY(FEET/SEC) = 1.34 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 9.63 Tc(MIN.) = 34.43  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 113.00 = 3050.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 104.00 TO NODE 113.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 34.43  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.396  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	B	3.55	0.31	1.000	84

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 3.55 SUBAREA RUNOFF(CFS) = 3.47  
 EFFECTIVE AREA(ACRES) = 40.80 AREA-AVERAGED Fm(INCH/HR) = 0.13  
 AREA-AVERAGED Fp(INCH/HR) = 0.14 AREA-AVERAGED Ap = 0.97  
 TOTAL AREA(ACRES) = 40.8 PEAK FLOW RATE(CFS) = 53.01  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 113.00 TO NODE 113.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 34.43  
 RAINFALL INTENSITY(INCH/HR) = 1.40  
 AREA-AVERAGED Fm(INCH/HR) = 0.13  
 AREA-AVERAGED Fp(INCH/HR) = 0.14  
 AREA-AVERAGED Ap = 0.97  
 EFFECTIVE STREAM AREA(ACRES) = 40.80  
 TOTAL STREAM AREA(ACRES) = 40.80

PEAK FLOW RATE(CFS) AT CONFLUENCE = 53.01

\*\*\*\*\*  
FLOW PROCESS FROM NODE 110.00 TO NODE 111.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 830.00  
ELEVATION DATA: UPSTREAM(FEET) = 673.00 DOWNSTREAM(FEET) = 665.70

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 26.766  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.623  
SUBAREA Tc AND LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS Tc  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)  
NATURAL FAIR COVER  
"OPEN BRUSH" B 6.30 0.31 1.000 84 26.77  
NATURAL FAIR COVER  
"OPEN BRUSH" C 1.00 0.19 1.000 92 26.77  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.29  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
SUBAREA RUNOFF(CFS) = 8.75  
TOTAL AREA(ACRES) = 7.30 PEAK FLOW RATE(CFS) = 8.75

\*\*\*\*\*  
FLOW PROCESS FROM NODE 111.00 TO NODE 112.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
>>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 665.70 DOWNSTREAM(FEET) = 662.50  
CHANNEL LENGTH THRU SUBAREA(FEET) = 710.00 CHANNEL SLOPE = 0.0045  
CHANNEL FLOW THRU SUBAREA(CFS) = 8.75  
FLOW VELOCITY(FEET/SEC) = 1.62 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
TRAVEL TIME(MIN.) = 7.29 Tc(MIN.) = 34.06  
LONGEST FLOWPATH FROM NODE 110.00 TO NODE 112.00 = 1540.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 111.00 TO NODE 112.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 34.06  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.405  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
NATURAL FAIR COVER  
"OPEN BRUSH" B 8.35 0.31 1.000 84  
NATURAL FAIR COVER  
"OPEN BRUSH" C 0.10 0.19 1.000 92  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
SUBAREA AREA(ACRES) = 8.45 SUBAREA RUNOFF(CFS) = 8.35  
EFFECTIVE AREA(ACRES) = 15.75 AREA-AVERAGED Fm(INCH/HR) = 0.30  
AREA-AVERAGED Fp(INCH/HR) = 0.30 AREA-AVERAGED Ap = 1.00  
TOTAL AREA(ACRES) = 15.8 PEAK FLOW RATE(CFS) = 15.66

\*\*\*\*\*  
FLOW PROCESS FROM NODE 112.00 TO NODE 113.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
>>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 662.50 DOWNSTREAM(FEET) = 660.10  
CHANNEL LENGTH THRU SUBAREA(FEET) = 375.00 CHANNEL SLOPE = 0.0064  
CHANNEL FLOW THRU SUBAREA(CFS) = 15.66  
FLOW VELOCITY(FEET/SEC) = 2.25 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
TRAVEL TIME(MIN.) = 2.78 Tc(MIN.) = 36.84  
LONGEST FLOWPATH FROM NODE 110.00 TO NODE 113.00 = 1915.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 112.00 TO NODE 113.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

```

=====
MAINLINE Tc(MIN.) = 36.84
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.340
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
LAND USE           GROUP (ACRES) (INCH/HR) (DECIMAL) CN
NATURAL FAIR COVER
"OPEN BRUSH"       B       0.80   0.31  1.000  84
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 0.80   SUBAREA RUNOFF(CFS) = 0.74
EFFECTIVE AREA(ACRES) = 16.55 AREA-AVERAGED Fm(INCH/HR) = 0.30
AREA-AVERAGED Fp(INCH/HR) = 0.30 AREA-AVERAGED Ap = 1.000
TOTAL AREA(ACRES) = 16.6   PEAK FLOW RATE(CFS) = 15.66
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE
    
```

```

*****
FLOW PROCESS FROM NODE 113.00 TO NODE 113.00 IS CODE = 1
=====
    
```

```

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<
=====
    
```

```

TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:
TIME OF CONCENTRATION(MIN.) = 36.84
RAINFALL INTENSITY(INCH/HR) = 1.34
AREA-AVERAGED Fm(INCH/HR) = 0.30
AREA-AVERAGED Fp(INCH/HR) = 0.30
AREA-AVERAGED Ap = 1.000
EFFECTIVE STREAM AREA(ACRES) = 16.55
TOTAL STREAM AREA(ACRES) = 16.55
PEAK FLOW RATE(CFS) AT CONFLUENCE = 15.66
    
```

```

** CONFLUENCE DATA **
STREAM   Q   Tc   Intensity   Fp(Fm)   Ap   Ae   HEADWATER
NUMBER  (CFS) (MIN.) (INCH/HR) (INCH/HR) (ACRES) NODE
1       53.01 34.43 1.396 0.14(0.13) 0.97 40.8 100.00
2       15.66 36.84 1.340 0.30(0.30) 1.00 16.6 110.00
    
```

```

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.
    
```

```

** PEAK FLOW RATE TABLE **
STREAM   Q   Tc   Intensity   Fp(Fm)   Ap   Ae   HEADWATER
NUMBER  (CFS) (MIN.) (INCH/HR) (INCH/HR) (ACRES) NODE
1       68.42 34.43 1.396 0.18(0.18) 0.98 56.3 100.00
2       66.33 36.84 1.340 0.19(0.18) 0.98 57.3 110.00
    
```

```

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 68.42 Tc(MIN.) = 34.43
EFFECTIVE AREA(ACRES) = 56.26 AREA-AVERAGED Fm(INCH/HR) = 0.18
AREA-AVERAGED Fp(INCH/HR) = 0.18 AREA-AVERAGED Ap = 0.98
TOTAL AREA(ACRES) = 57.3
LONGEST FLOWPATH FROM NODE 100.00 TO NODE 113.00 = 3050.00 FEET.
    
```

```

*****
FLOW PROCESS FROM NODE 113.00 TO NODE 114.00 IS CODE = 52
=====
    
```

```

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<
>>>>TRAVELTIME THRU SUBAREA<<<<
=====
    
```

```

ELEVATION DATA: UPSTREAM(FEET) = 660.10 DOWNSTREAM(FEET) = 656.50
CHANNEL LENGTH THRU SUBAREA(FEET) = 830.00 CHANNEL SLOPE = 0.0043
CHANNEL FLOW THRU SUBAREA(CFS) = 68.42
FLOW VELOCITY(FEET/SEC) = 2.79 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
TRAVEL TIME(MIN.) = 4.95 Tc(MIN.) = 39.38
LONGEST FLOWPATH FROM NODE 100.00 TO NODE 114.00 = 3880.00 FEET.
    
```

```

*****
FLOW PROCESS FROM NODE 113.00 TO NODE 114.00 IS CODE = 81
=====
    
```

```

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<
=====
    
```

```

MAINLINE Tc(MIN.) = 39.38
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.287
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
    
```

```

LAND USE      GROUP  (ACRES) (INCH/HR) (DECIMAL)  CN
NATURAL FAIR COVER
"OPEN BRUSH"     B      1.25    0.31    1.000    84
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 1.25    SUBAREA RUNOFF(CFS) = 1.10
EFFECTIVE AREA(ACRES) = 57.51  AREA-AVERAGED Fm(INCH/HR) = 0.18
AREA-AVERAGED Fp(INCH/HR) = 0.19  AREA-AVERAGED Ap = 0.98
TOTAL AREA(ACRES) = 58.6    PEAK FLOW RATE(CFS) = 68.42
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

```

```

*****
FLOW PROCESS FROM NODE 114.00 TO NODE 205.00 IS CODE = 1

```

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

```

=====
TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:
TIME OF CONCENTRATION(MIN.) = 39.38
RAINFALL INTENSITY(INCH/HR) = 1.29
AREA-AVERAGED Fm(INCH/HR) = 0.18
AREA-AVERAGED Fp(INCH/HR) = 0.19
AREA-AVERAGED Ap = 0.98
EFFECTIVE STREAM AREA(ACRES) = 57.51
TOTAL STREAM AREA(ACRES) = 58.60
PEAK FLOW RATE(CFS) AT CONFLUENCE = 68.42

```

```

*****
FLOW PROCESS FROM NODE 200.00 TO NODE 201.00 IS CODE = 21

```

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

```

=====
INITIAL SUBAREA FLOW-LENGTH(FEET) = 780.00
ELEVATION DATA: UPSTREAM(FEET) = 670.80  DOWNSTREAM(FEET) = 665.50

```

```

Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 11.838
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.648
SUBAREA Tc AND LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/    SCS SOIL  AREA     Fp       Ap     SCS  Tc
LAND USE              GROUP  (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)
NATURAL FAIR COVER
"OPEN BRUSH"         B       7.40    0.31    1.000    84  27.49
RESIDENTIAL
"8-10 DWELLINGS/ACRE" B       0.35    0.42    0.400    76  14.56
COMMERCIAL           B       0.15    0.42    0.100    76  11.84
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.956
SUBAREA RUNOFF(CFS) = 16.72
TOTAL AREA(ACRES) = 7.90  PEAK FLOW RATE(CFS) = 16.72

```

```

*****
FLOW PROCESS FROM NODE 201.00 TO NODE 202.00 IS CODE = 52

```

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
>>>>TRAVELTIME THRU SUBAREA<<<<<

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 665.50  DOWNSTREAM(FEET) = 662.20
CHANNEL LENGTH THRU SUBAREA(FEET) = 630.00  CHANNEL SLOPE = 0.0052
CHANNEL FLOW THRU SUBAREA(CFS) = 16.72
FLOW VELOCITY(FEET/SEC) = 2.07 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
TRAVEL TIME(MIN.) = 5.08  Tc(MIN.) = 16.92
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 202.00 = 1410.00 FEET.

```

```

*****
FLOW PROCESS FROM NODE 201.00 TO NODE 202.00 IS CODE = 81

```

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

```

=====
MAINLINE Tc(MIN.) = 16.92
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.137
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/    SCS SOIL  AREA     Fp       Ap     SCS  CN
LAND USE              GROUP  (ACRES) (INCH/HR) (DECIMAL) CN
NATURAL FAIR COVER
"OPEN BRUSH"         B       8.90    0.31    1.000    84

```

EX100A.RES

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 8.90 SUBAREA RUNOFF(CFS) = 14.65
EFFECTIVE AREA(ACRES) = 16.80 AREA-AVERAGED Fm(INCH/HR) = 0.30
AREA-AVERAGED Fp(INCH/HR) = 0.31 AREA-AVERAGED Ap = 0.98
TOTAL AREA(ACRES) = 16.8 PEAK FLOW RATE(CFS) = 27.74

\*\*\*\*\*
FLOW PROCESS FROM NODE 202.00 TO NODE 203.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
>>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 662.20 DOWNSTREAM(FEET) = 658.00
CHANNEL LENGTH THRU SUBAREA(FEET) = 630.00 CHANNEL SLOPE = 0.0067
CHANNEL FLOW THRU SUBAREA(CFS) = 27.74
FLOW VELOCITY(FEET/SEC) = 2.68 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
TRAVEL TIME(MIN.) = 3.92 Tc(MIN.) = 20.84
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 203.00 = 2040.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 202.00 TO NODE 203.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 20.84
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.886
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
NATURAL FAIR COVER
"OPEN BRUSH" B 8.50 0.31 1.000 84
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 8.50 SUBAREA RUNOFF(CFS) = 12.07
EFFECTIVE AREA(ACRES) = 25.30 AREA-AVERAGED Fm(INCH/HR) = 0.30
AREA-AVERAGED Fp(INCH/HR) = 0.31 AREA-AVERAGED Ap = 0.99
TOTAL AREA(ACRES) = 25.3 PEAK FLOW RATE(CFS) = 36.01

\*\*\*\*\*
FLOW PROCESS FROM NODE 203.00 TO NODE 204.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
>>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 658.00 DOWNSTREAM(FEET) = 656.20
CHANNEL LENGTH THRU SUBAREA(FEET) = 545.00 CHANNEL SLOPE = 0.0033
CHANNEL FLOW THRU SUBAREA(CFS) = 36.01
FLOW VELOCITY(FEET/SEC) = 2.03 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
TRAVEL TIME(MIN.) = 4.48 Tc(MIN.) = 25.33
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 204.00 = 2585.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 203.00 TO NODE 204.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 25.33
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.678
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
NATURAL FAIR COVER
"OPEN BRUSH" B 8.85 0.31 1.000 84
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 8.85 SUBAREA RUNOFF(CFS) = 10.91
EFFECTIVE AREA(ACRES) = 34.15 AREA-AVERAGED Fm(INCH/HR) = 0.31
AREA-AVERAGED Fp(INCH/HR) = 0.31 AREA-AVERAGED Ap = 0.99
TOTAL AREA(ACRES) = 34.2 PEAK FLOW RATE(CFS) = 42.18

\*\*\*\*\*
FLOW PROCESS FROM NODE 204.00 TO NODE 205.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<



TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 25.33  
 RAINFALL INTENSITY(INCH/HR) = 1.68  
 AREA-AVERAGED Fm(INCH/HR) = 0.31  
 AREA-AVERAGED Fp(INCH/HR) = 0.31  
 AREA-AVERAGED Ap = 0.99  
 EFFECTIVE STREAM AREA(ACRES) = 34.15  
 TOTAL STREAM AREA(ACRES) = 34.15  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 42.18

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	68.42	39.38	1.287	0.19( 0.18)	0.98	57.5	100.00
1	66.33	41.84	1.241	0.19( 0.19)	0.98	58.6	110.00
2	42.18	25.33	1.678	0.31( 0.31)	0.99	34.2	200.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	101.74	25.33	1.678	0.25( 0.24)	0.99	71.1	200.00
2	98.61	39.38	1.287	0.23( 0.23)	0.98	91.7	100.00
3	95.10	41.84	1.241	0.23( 0.23)	0.99	92.8	110.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 101.74 Tc(MIN.) = 25.33  
 EFFECTIVE AREA(ACRES) = 71.14 AREA-AVERAGED Fm(INCH/HR) = 0.24  
 AREA-AVERAGED Fp(INCH/HR) = 0.25 AREA-AVERAGED Ap = 0.99  
 TOTAL AREA(ACRES) = 92.8  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 205.00 = 3880.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 205.00 TO NODE 205.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 25.33  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.678  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ LAND USE SCS SOIL GROUP AREA (ACRES) Fp (INCH/HR) Ap (DECIMAL) SCS CN  
 NATURAL FAIR COVER "OPEN BRUSH" B 2.70 0.31 1.000 84  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 2.70 SUBAREA RUNOFF(CFS) = 3.33  
 EFFECTIVE AREA(ACRES) = 73.84 AREA-AVERAGED Fm(INCH/HR) = 0.24  
 AREA-AVERAGED Fp(INCH/HR) = 0.25 AREA-AVERAGED Ap = 0.99  
 TOTAL AREA(ACRES) = 95.4 PEAK FLOW RATE(CFS) = 101.74  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

END OF STUDY SUMMARY:  
 TOTAL AREA(ACRES) = 95.4 TC(MIN.) = 25.33  
 EFFECTIVE AREA(ACRES) = 73.84 AREA-AVERAGED Fm(INCH/HR) = 0.24  
 AREA-AVERAGED Fp(INCH/HR) = 0.25 AREA-AVERAGED Ap = 0.986  
 PEAK FLOW RATE(CFS) = 101.74

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	101.74	25.33	1.678	0.25( 0.24)	0.99	73.8	200.00
2	98.61	39.38	1.287	0.23( 0.23)	0.99	94.4	100.00
3	95.10	41.84	1.241	0.24( 0.23)	0.99	95.4	110.00

END OF RATIONAL METHOD ANALYSIS

\*\*\*\*\*  
 RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE  
 (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

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 LA MIRADA, CA 90638

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* EXISTING CONDITION 100-YEAR \*  
 \* SOUTHEAST PORTION OF SITE TRIBUTARY TO MERRILL AVE \*  
 \*\*\*\*\*

FILE NAME: W:\3654\EX100B.DAT  
 TIME/DATE OF STUDY: 16:15 06/19/2018

=====

USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:

=====

--\*TIME-OF-CONCENTRATION MODEL\*--

USER SPECIFIED STORM EVENT(YEAR) = 100.00  
 SPECIFIED MINIMUM PIPE SIZE(INCH) = 12.00  
 SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
 \*USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL\*

SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000  
 USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

\*ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD\*

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- WIDTH (FT)	CROWN TO CROSSFALL (FT)	STREET- CROSSFALL IN- / SIDE / SIDE / WAY	STREET- CROSSFALL OUT- / SIDE / SIDE / WAY	STREET- CROSSFALL HEIGHT (FT)	GUTTER- WIDTH (FT)	GEOMETRIES: LIP (FT)	MANNING HIKE (FT)	FACTOR (n)
1	30.0	20.0	0.018/0.018/0.020	0.67	2.00	0.0313	0.167	0.0150	

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:

1. Relative Flow-Depth = 0.00 FEET  
 as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
  2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)
- \*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
 OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*  
 \*USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 300.00 TO NODE 301.00 IS CODE = 21

=====  
 >>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<  
 =====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 755.00  
 ELEVATION DATA: UPSTREAM(FEET) = 666.00 DOWNSTREAM(FEET) = 659.80

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$

SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 11.250

\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.730

SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
NATURAL FAIR COVER "OPEN BRUSH"	C	7.15	0.19	1.000	92	26.13
RESIDENTIAL "2 DWELLINGS/ACRE"	C	0.20	0.27	0.700	86	16.21
COMMERCIAL	C	0.20	0.27	0.100	86	11.25

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.19

SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.968

SUBAREA RUNOFF(CFS) = 17.29

TOTAL AREA(ACRES) = 7.55 PEAK FLOW RATE(CFS) = 17.29

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 301.00 TO NODE 302.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 659.80 DOWNSTREAM(FEET) = 657.20  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 635.00 CHANNEL SLOPE = 0.0041  
 CHANNEL FLOW THRU SUBAREA(CFS) = 17.29  
 FLOW VELOCITY(FEET/SEC) = 1.84 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 5.74 Tc(MIN.) = 16.99  
 LONGEST FLOWPATH FROM NODE 300.00 TO NODE 302.00 = 1390.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 301.00 TO NODE 302.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 16.99  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.132  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	C	3.20	0.19	1.000	92
NATURAL FAIR COVER "OPEN BRUSH"	B	2.75	0.31	1.000	84

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.24  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 5.95 SUBAREA RUNOFF(CFS) = 10.11  
 EFFECTIVE AREA(ACRES) = 13.50 AREA-AVERAGED Fm(INCH/HR) = 0.21  
 AREA-AVERAGED Fp(INCH/HR) = 0.22 AREA-AVERAGED Ap = 0.98  
 TOTAL AREA(ACRES) = 13.5 PEAK FLOW RATE(CFS) = 23.33

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 302.00 TO NODE 303.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 657.20 DOWNSTREAM(FEET) = 655.50  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 450.00 CHANNEL SLOPE = 0.0038  
 CHANNEL FLOW THRU SUBAREA(CFS) = 23.33  
 FLOW VELOCITY(FEET/SEC) = 1.92 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
 TRAVEL TIME(MIN.) = 3.91 Tc(MIN.) = 20.90  
 LONGEST FLOWPATH FROM NODE 300.00 TO NODE 303.00 = 1840.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 302.00 TO NODE 303.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 20.90  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.883  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	B	8.45	0.31	1.000	84
NATURAL FAIR COVER "OPEN BRUSH"	C	1.50	0.19	1.000	92

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.29  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 9.95 SUBAREA RUNOFF(CFS) = 14.26  
 EFFECTIVE AREA(ACRES) = 23.45 AREA-AVERAGED Fm(INCH/HR) = 0.24  
 AREA-AVERAGED Fp(INCH/HR) = 0.25 AREA-AVERAGED Ap = 0.99  
 TOTAL AREA(ACRES) = 23.5 PEAK FLOW RATE(CFS) = 34.57

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 303.00 TO NODE 304.00 IS CODE = 52

>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 655.50 DOWNSTREAM(FEET) = 653.40  
 CHANNEL LENGTH THRU SUBAREA(FEET) = 540.00 CHANNEL SLOPE = 0.0039  
 CHANNEL FLOW THRU SUBAREA(CFS) = 34.57

EX100B.RES

FLOW VELOCITY(FEET/SEC) = 2.17 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)  
TRAVEL TIME(MIN.) = 4.14 Tc(MIN.) = 25.04  
LONGEST FLOWPATH FROM NODE 300.00 TO NODE 304.00 = 2380.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 303.00 TO NODE 304.00 IS CODE = 81

=====  
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<  
=====

MAINLINE Tc(MIN.) = 25.04

\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.689

SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
-------------------------------	-------------------	-----------------	-----------------	-----------------	-----------

NATURAL FAIR COVER

"OPEN BRUSH" B 7.35 0.31 1.000 84

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31

SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000

SUBAREA AREA(ACRES) = 7.35 SUBAREA RUNOFF(CFS) = 9.14

EFFECTIVE AREA(ACRES) = 30.80 AREA-AVERAGED Fm(INCH/HR) = 0.26

AREA-AVERAGED Fp(INCH/HR) = 0.26 AREA-AVERAGED Ap = 0.99

TOTAL AREA(ACRES) = 30.8 PEAK FLOW RATE(CFS) = 39.62

=====  
END OF STUDY SUMMARY:

TOTAL AREA(ACRES) = 30.8 TC(MIN.) = 25.04

EFFECTIVE AREA(ACRES) = 30.80 AREA-AVERAGED Fm(INCH/HR) = 0.26

AREA-AVERAGED Fp(INCH/HR) = 0.26 AREA-AVERAGED Ap = 0.992

PEAK FLOW RATE(CFS) = 39.62  
=====

=====  
END OF RATIONAL METHOD ANALYSIS

^

\*\*\*\*\*  
 RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE  
 (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

THIENES ENGINEERING, INC.  
 14349 FIRESTONE BLVD  
 LA MIRADA, CA 90638

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* EXISTING CONDITION 100-YEAR \*  
 \* PORTION OF SITE TRIBUTARY TO GROVE AVE \*  
 \*\*\*\*\*

FILE NAME: W:\3654\EX100C.DAT  
 TIME/DATE OF STUDY: 15:45 06/19/2018

=====

USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:

=====

--\*TIME-OF-CONCENTRATION MODEL\*--

USER SPECIFIED STORM EVENT(YEAR) = 100.00  
 SPECIFIED MINIMUM PIPE SIZE(INCH) = 12.00  
 SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
 \*USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL\*

SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000  
 USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

\*ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD\*

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	WIDTH (FT)	CROWN TO CROSSFALL (FT)	IN- / OUT- / PARK- SIDE / SIDE / WAY	HEIGHT (FT)	WIDTH (FT)	LIP (FT)	HIKE (FT)	FACTOR (n)
1	30.0	20.0	0.018/0.018/0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:

1. Relative Flow-Depth = 0.00 FEET  
 as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)

\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
 OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*

\*USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 400.00 TO NODE 401.00 IS CODE = 21  
 =====

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 1000.00  
 ELEVATION DATA: UPSTREAM(FEET) = 675.00 DOWNSTREAM(FEET) = 664.80

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$

SUBAREA ANALYSIS USED MINIMUM  $T_c$ (MIN.) = 16.337

\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.183

SUBAREA  $T_c$  AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
NATURAL POOR COVER "BARREN"	A	1.15	0.18	1.000	93	20.82
RESIDENTIAL "3-4 DWELLINGS/ACRE"	A	0.25	0.74	0.600	52	16.34
NATURAL FAIR COVER "OPEN BRUSH"	C	0.45	0.19	1.000	92	28.00

SUBAREA AVERAGE PERVIOUS LOSS RATE,  $F_p$ (INCH/HR) = 0.23

SUBAREA AVERAGE PERVIOUS AREA FRACTION,  $A_p$  = 0.946

SUBAREA RUNOFF(CFS) = 3.27

TOTAL AREA(ACRES) = 1.85 PEAK FLOW RATE(CFS) = 3.27

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 401.00 TO NODE 402.00 IS CODE = 62  
 -----

>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>(STREET TABLE SECTION # 1 USED)<<<<<

=====

UPSTREAM ELEVATION(FEET) = 664.80 DOWNSTREAM ELEVATION(FEET) = 658.20  
 STREET LENGTH(FEET) = 950.00 CURB HEIGHT(INCHES) = 8.0  
 STREET HALFWIDTH(FEET) = 30.00

DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) = 20.00  
 INSIDE STREET CROSSFALL(DECIMAL) = 0.018  
 OUTSIDE STREET CROSSFALL(DECIMAL) = 0.018

SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF = 1  
 STREET PARKWAY CROSSFALL(DECIMAL) = 0.020  
 Manning's FRICTION FACTOR for Streetflow Section(curbs-to-curbs) = 0.0150  
 Manning's FRICTION FACTOR for Back-of-Walk Flow Section = 0.0200

\*\*TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) = 4.92  
 STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:  
 STREET FLOW DEPTH(FEET) = 0.43  
 HALFSTREET FLOOD WIDTH(FEET) = 14.96  
 AVERAGE FLOW VELOCITY(FEET/SEC.) = 2.24  
 PRODUCT OF DEPTH&VELOCITY(FT\*FT/SEC.) = 0.96  
 STREET FLOW TRAVEL TIME(MIN.) = 7.06 Tc(MIN.) = 23.40  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 1.759

SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	C	1.90	0.19	1.000	92
RESIDENTIAL "2 DWELLINGS/ACRE"	C	0.20	0.27	0.700	86
COMMERCIAL	C	0.20	0.27	0.100	86

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.20  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.896  
 SUBAREA AREA(ACRES) = 2.30 SUBAREA RUNOFF(CFS) = 3.28  
 EFFECTIVE AREA(ACRES) = 4.15 AREA-AVERAGED Fm(INCH/HR) = 0.19  
 AREA-AVERAGED Fp(INCH/HR) = 0.21 AREA-AVERAGED Ap = 0.92  
 TOTAL AREA(ACRES) = 4.1 PEAK FLOW RATE(CFS) = 5.84

END OF SUBAREA STREET FLOW HYDRAULICS:

DEPTH(FEET) = 0.45 HALFSTREET FLOOD WIDTH(FEET) = 16.05  
 FLOW VELOCITY(FEET/SEC.) = 2.34 DEPTH\*VELOCITY(FT\*FT/SEC.) = 1.05  
 LONGEST FLOWPATH FROM NODE 400.00 TO NODE 402.00 = 1950.00 FEET.

=====

END OF STUDY SUMMARY:

TOTAL AREA(ACRES) = 4.1 TC(MIN.) = 23.40  
 EFFECTIVE AREA(ACRES) = 4.15 AREA-AVERAGED Fm(INCH/HR) = 0.19  
 AREA-AVERAGED Fp(INCH/HR) = 0.21 AREA-AVERAGED Ap = 0.918  
 PEAK FLOW RATE(CFS) = 5.84

=====

END OF RATIONAL METHOD ANALYSIS

▲

## PROPOSED CONDITION

\*\*\*\*\*  
 RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* PROPOSED CONDITION 100-YEAR \*  
 \* NORTHERLY PORTION OF SITE (BUILDINGS 4-8) \*  
 \*\*\*\*\*

FILE NAME: W:\3654\PR100A.DAT  
 TIME/DATE OF STUDY: 22:35 12/12/2020

=====

USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:

=====

--\*TIME-OF-CONCENTRATION MODEL\*--

USER SPECIFIED STORM EVENT(YEAR) = 100.00  
 SPECIFIED MINIMUM PIPE SIZE(INCH) = 12.00  
 SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
 \*USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL\*

SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000  
 USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

\*ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD\*

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- WIDTH (FT)	CROWN TO CROSSFALL (FT)	STREET- IN- / SIDE /	CROSSFALL / OUT- SIDE /	WAY	HEIGHT (FT)	WIDTH (FT)	GUTTER- LIP (FT)	GEOMETRIES: HIKE (FT)	MANNING FACTOR (n)
1	30.0	20.0	0.018/0.018	0.020		0.67	2.00	0.0312	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:  
 1. Relative Flow-Depth = 0.00 FEET  
 as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)  
 2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)  
 \*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
 OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*  
 \*USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 100.00 TO NODE 101.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 530.00  
 ELEVATION DATA: UPSTREAM(FEET) = 672.13 DOWNSTREAM(FEET) = 667.51

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 9.650  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.994  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	2.35	0.74	0.100	52	9.65

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.74  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 6.17  
 TOTAL AREA(ACRES) = 2.35 PEAK FLOW RATE(CFS) = 6.17

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 101.00 TO NODE 112.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<<



>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 663.51 DOWNSTREAM(FEET) = 662.95
FLOW LENGTH(FEET) = 112.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 18.0 INCH PIPE IS 12.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 4.92
ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 6.17
PIPE TRAVEL TIME(MIN.) = 0.38 Tc(MIN.) = 10.03
LONGEST FLOWPATH FROM NODE 100.00 TO NODE 112.00 = 642.00 FEET.
=====
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 112.00 TO NODE 112.00 IS CODE = 1  
 -----

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

```

=====
TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:
TIME OF CONCENTRATION(MIN.) = 10.03
RAINFALL INTENSITY(INCH/HR) = 2.93
AREA-AVERAGED Fm(INCH/HR) = 0.07
AREA-AVERAGED Fp(INCH/HR) = 0.74
AREA-AVERAGED Ap = 0.10
EFFECTIVE STREAM AREA(ACRES) = 2.35
TOTAL STREAM AREA(ACRES) = 2.35
PEAK FLOW RATE(CFS) AT CONFLUENCE = 6.17
=====
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 110.00 TO NODE 111.00 IS CODE = 21  
 -----

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

```

=====
INITIAL SUBAREA FLOW-LENGTH(FEET) = 510.00
ELEVATION DATA: UPSTREAM(FEET) = 674.45 DOWNSTREAM(FEET) = 667.51
    
```

```

Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.692
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.187
SUBAREA Tc AND LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS   Tc
LAND USE            GROUP (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)
COMMERCIAL          A      1.95   0.74  0.100  52   8.69
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.74
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA RUNOFF(CFS) = 5.46
TOTAL AREA(ACRES) = 1.95 PEAK FLOW RATE(CFS) = 5.46
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 111.00 TO NODE 111.00 IS CODE = 81  
 -----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

```

=====
MAINLINE Tc(MIN.) = 8.69
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.187
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
LAND USE            GROUP (ACRES) (INCH/HR) (DECIMAL) CN
NATURAL FAIR COVER
"OPEN BRUSH"        A      0.35   0.55  1.000  66
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.55
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000
SUBAREA AREA(ACRES) = 0.35 SUBAREA RUNOFF(CFS) = 0.83
EFFECTIVE AREA(ACRES) = 2.30 AREA-AVERAGED Fm(INCH/HR) = 0.15
AREA-AVERAGED Fp(INCH/HR) = 0.62 AREA-AVERAGED Ap = 0.24
TOTAL AREA(ACRES) = 2.3 PEAK FLOW RATE(CFS) = 6.29
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 111.00 TO NODE 112.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 663.51 DOWNSTREAM(FEET) = 663.46
FLOW LENGTH(FEET) = 10.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 18.0 INCH PIPE IS 12.2 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 4.94
    
```

PR100A.RES

ESTIMATED PIPE DIAMETER(INCH) = 18.00    NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 6.29  
 PIPE TRAVEL TIME(MIN.) = 0.03    Tc(MIN.) = 8.73  
 LONGEST FLOWPATH FROM NODE 110.00 TO NODE 112.00 = 520.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 112.00 TO NODE 112.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 8.73  
 RAINFALL INTENSITY(INCH/HR) = 3.18  
 AREA-AVERAGED Fm(INCH/HR) = 0.15  
 AREA-AVERAGED Fp(INCH/HR) = 0.62  
 AREA-AVERAGED Ap = 0.24  
 EFFECTIVE STREAM AREA(ACRES) = 2.30  
 TOTAL STREAM AREA(ACRES) = 2.30  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 6.29

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	6.17	10.03	2.925	0.74( 0.07)	0.10	2.3	100.00
2	6.29	8.73	3.180	0.62( 0.15)	0.24	2.3	110.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	12.15	8.73	3.180	0.65( 0.11)	0.17	4.3	110.00
2	11.94	10.03	2.925	0.65( 0.11)	0.17	4.6	100.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 12.15    Tc(MIN.) = 8.73  
 EFFECTIVE AREA(ACRES) = 4.34    AREA-AVERAGED Fm(INCH/HR) = 0.11  
 AREA-AVERAGED Fp(INCH/HR) = 0.65    AREA-AVERAGED Ap = 0.17  
 TOTAL AREA(ACRES) = 4.6  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 112.00 = 642.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 112.00 TO NODE 132.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 662.95    DOWNSTREAM(FEET) = 660.48  
 FLOW LENGTH(FEET) = 494.00    MANNING'S N = 0.012  
 DEPTH OF FLOW IN 24.0 INCH PIPE IS 15.1 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.85  
 ESTIMATED PIPE DIAMETER(INCH) = 24.00    NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 12.15  
 PIPE TRAVEL TIME(MIN.) = 1.41    Tc(MIN.) = 10.13  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 132.00 = 1136.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 132.00 TO NODE 132.00 IS CODE = 10

>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 120.00 TO NODE 121.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 445.00  
 ELEVATION DATA: UPSTREAM(FEET) = 674.45    DOWNSTREAM(FEET) = 667.29

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 7.960  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.360

SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	1.70	0.74	0.100	52	7.96

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.74  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.03  
 TOTAL AREA(ACRES) = 1.70 PEAK FLOW RATE(CFS) = 5.03

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 121.00 TO NODE 131.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 663.29 DOWNSTREAM(FEET) = 662.66  
 FLOW LENGTH(FEET) = 126.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 10.5 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.71  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.03  
 PIPE TRAVEL TIME(MIN.) = 0.45 Tc(MIN.) = 8.41  
 LONGEST FLOWPATH FROM NODE 120.00 TO NODE 131.00 = 571.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 131.00 TO NODE 131.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 8.41  
 RAINFALL INTENSITY(INCH/HR) = 3.25  
 AREA-AVERAGED Fm(INCH/HR) = 0.07  
 AREA-AVERAGED Fp(INCH/HR) = 0.74  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.70  
 TOTAL STREAM AREA(ACRES) = 1.70  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.03

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 130.00 TO NODE 131.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 455.00  
 ELEVATION DATA: UPSTREAM(FEET) = 674.18 DOWNSTREAM(FEET) = 667.29

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.129  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.318  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	1.75	0.74	0.100	52	8.13

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.74  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.11  
 TOTAL AREA(ACRES) = 1.75 PEAK FLOW RATE(CFS) = 5.11

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 131.00 TO NODE 131.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 8.13  
 RAINFALL INTENSITY(INCH/HR) = 3.32  
 AREA-AVERAGED Fm(INCH/HR) = 0.07  
 AREA-AVERAGED Fp(INCH/HR) = 0.74  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.75  
 TOTAL STREAM AREA(ACRES) = 1.75  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.11

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	5.03	8.41	3.252	0.74( 0.07)	0.10	1.7	120.00
2	5.11	8.13	3.318	0.74( 0.07)	0.10	1.8	130.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	10.07	8.13	3.318	0.74( 0.07)	0.10	3.4	130.00
2	10.03	8.41	3.252	0.74( 0.07)	0.10	3.5	120.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 10.07 Tc(MIN.) = 8.13  
EFFECTIVE AREA(ACRES) = 3.39 AREA-AVERAGED Fm(INCH/HR) = 0.07  
AREA-AVERAGED Fp(INCH/HR) = 0.74 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 3.5  
LONGEST FLOWPATH FROM NODE 120.00 TO NODE 131.00 = 571.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 131.00 TO NODE 131.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 8.13  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.318  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ LAND USE SCS SOIL GROUP AREA (ACRES) Fp (INCH/HR) Ap (DECIMAL) SCS CN  
NATURAL FAIR COVER "OPEN BRUSH" A 0.30 0.55 1.000 66  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.55  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
SUBAREA AREA(ACRES) = 0.30 SUBAREA RUNOFF(CFS) = 0.75  
EFFECTIVE AREA(ACRES) = 3.69 AREA-AVERAGED Fm(INCH/HR) = 0.11  
AREA-AVERAGED Fp(INCH/HR) = 0.65 AREA-AVERAGED Ap = 0.17  
TOTAL AREA(ACRES) = 3.8 PEAK FLOW RATE(CFS) = 10.66

\*\*\*\*\*

FLOW PROCESS FROM NODE 131.00 TO NODE 132.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 663.29 DOWNSTREAM(FEET) = 663.24  
FLOW LENGTH(FEET) = 10.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 21.0 INCH PIPE IS 15.6 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.57  
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 10.66  
PIPE TRAVEL TIME(MIN.) = 0.03 Tc(MIN.) = 8.16  
LONGEST FLOWPATH FROM NODE 120.00 TO NODE 132.00 = 581.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 132.00 TO NODE 132.00 IS CODE = 11

>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<

\*\* MAIN STREAM CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	10.66	8.16	3.311	0.65( 0.11)	0.17	3.7	130.00
2	10.60	8.44	3.245	0.65( 0.11)	0.17	3.8	120.00

LONGEST FLOWPATH FROM NODE 120.00 TO NODE 132.00 = 581.00 FEET.

\*\* MEMORY BANK # 1 CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	12.15	10.13	2.907	0.65( 0.11)	0.17	4.3	110.00
2	11.94	11.44	2.703	0.65( 0.11)	0.17	4.6	100.00

LONGEST FLOWPATH FROM NODE 100.00 TO NODE 132.00 = 1136.00 FEET.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	21.85	8.16	3.311	0.65( 0.11)	0.17	7.2	130.00
2	21.93	8.44	3.245	0.65( 0.11)	0.17	7.4	120.00
3	21.60	10.13	2.907	0.65( 0.11)	0.17	8.1	110.00
4	20.70	11.44	2.703	0.65( 0.11)	0.17	8.4	100.00
TOTAL AREA(ACRES) =			8.4				

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 21.93 Tc(MIN.) = 8.436  
 EFFECTIVE AREA(ACRES) = 7.37 AREA-AVERAGED Fm(INCH/HR) = 0.11  
 AREA-AVERAGED Fp(INCH/HR) = 0.65 AREA-AVERAGED Ap = 0.17  
 TOTAL AREA(ACRES) = 8.4  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 132.00 = 1136.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 132.00 TO NODE 132.00 IS CODE = 12  
 -----

>>>>CLEAR MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 132.00 TO NODE 152.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 660.48 DOWNSTREAM(FEET) = 658.21  
 FLOW LENGTH(FEET) = 454.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 27.0 INCH PIPE IS 21.0 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 6.62  
 ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 21.93  
 PIPE TRAVEL TIME(MIN.) = 1.14 Tc(MIN.) = 9.58  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 152.00 = 1590.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 152.00 TO NODE 152.00 IS CODE = 10  
 -----

>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 140.00 TO NODE 141.00 IS CODE = 21  
 -----

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 480.00  
 ELEVATION DATA: UPSTREAM(FEET) = 674.18 DOWNSTREAM(FEET) = 667.06

$Tc = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.339  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.268

SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	0.55	0.74	0.100	52	8.34
COMMERCIAL	C	1.25	0.27	0.100	86	8.34

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.23  
 TOTAL AREA(ACRES) = 1.80 PEAK FLOW RATE(CFS) = 5.23

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 141.00 TO NODE 151.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 663.06 DOWNSTREAM(FEET) = 662.55  
 FLOW LENGTH(FEET) = 102.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 10.7 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.76  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.23

PIPE TRAVEL TIME(MIN.) = 0.36 Tc(MIN.) = 8.70  
 LONGEST FLOWPATH FROM NODE 140.00 TO NODE 151.00 = 582.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 151.00 TO NODE 151.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 8.70  
 RAINFALL INTENSITY(INCH/HR) = 3.19  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.80  
 TOTAL STREAM AREA(ACRES) = 1.80  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.23

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 150.00 TO NODE 151.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 480.00  
 ELEVATION DATA: UPSTREAM(FEET) = 671.89 DOWNSTREAM(FEET) = 667.06

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 9.012  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.119  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	1.05	0.42	0.100	76	9.01
COMMERCIAL	C	0.80	0.27	0.100	86	9.01

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.36  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.13  
 TOTAL AREA(ACRES) = 1.85 PEAK FLOW RATE(CFS) = 5.13

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 151.00 TO NODE 151.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 9.01  
 RAINFALL INTENSITY(INCH/HR) = 3.12  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.85  
 TOTAL STREAM AREA(ACRES) = 1.85  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.13

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	5.23	8.70	3.186	0.42( 0.04)	0.10	1.8	140.00
2	5.13	9.01	3.119	0.36( 0.04)	0.10	1.8	150.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	10.29	8.70	3.186	0.39( 0.04)	0.10	3.6	140.00
2	10.25	9.01	3.119	0.39( 0.04)	0.10	3.6	150.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:  
 PEAK FLOW RATE(CFS) = 10.29 Tc(MIN.) = 8.70  
 EFFECTIVE AREA(ACRES) = 3.59 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.39 AREA-AVERAGED Ap = 0.10

TOTAL AREA(ACRES) = 3.6  
 LONGEST FLOWPATH FROM NODE 140.00 TO NODE 151.00 = 582.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 151.00 TO NODE 151.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 8.70  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.186  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 NATURAL FAIR COVER  
 "OPEN BRUSH" C 0.35 0.19 1.000 92  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.19  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 0.35 SUBAREA RUNOFF(CFS) = 0.94  
 EFFECTIVE AREA(ACRES) = 3.94 AREA-AVERAGED Fm(INCH/HR) = 0.05  
 AREA-AVERAGED Fp(INCH/HR) = 0.29 AREA-AVERAGED Ap = 0.18  
 TOTAL AREA(ACRES) = 4.0 PEAK FLOW RATE(CFS) = 11.10

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 151.00 TO NODE 152.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 662.55 DOWNSTREAM(FEET) = 662.50  
 FLOW LENGTH(FEET) = 10.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 21.0 INCH PIPE IS 16.1 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.59  
 ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 11.10  
 PIPE TRAVEL TIME(MIN.) = 0.03 Tc(MIN.) = 8.73  
 LONGEST FLOWPATH FROM NODE 140.00 TO NODE 152.00 = 592.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 152.00 TO NODE 152.00 IS CODE = 11

>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<

\*\* MAIN STREAM CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	11.10	8.73	3.180	0.29( 0.05)	0.18	3.9	140.00
2	11.04	9.04	3.113	0.29( 0.05)	0.18	4.0	150.00

LONGEST FLOWPATH FROM NODE 140.00 TO NODE 152.00 = 592.00 FEET.

\*\* MEMORY BANK # 1 CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	21.85	9.30	3.060	0.65( 0.11)	0.17	7.2	130.00
2	21.93	9.58	3.007	0.65( 0.11)	0.17	7.4	120.00
3	21.60	11.28	2.726	0.65( 0.11)	0.17	8.1	110.00
4	20.70	12.59	2.552	0.65( 0.11)	0.17	8.4	100.00

LONGEST FLOWPATH FROM NODE 100.00 TO NODE 152.00 = 1590.00 FEET.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	32.43	8.73	3.180	0.51( 0.09)	0.18	10.7	140.00
2	32.66	9.04	3.113	0.52( 0.09)	0.17	11.0	150.00
3	32.70	9.30	3.060	0.52( 0.09)	0.17	11.2	130.00
4	32.59	9.58	3.007	0.52( 0.09)	0.17	11.4	120.00
5	31.25	11.28	2.726	0.53( 0.09)	0.17	12.1	110.00
6	29.72	12.59	2.552	0.53( 0.09)	0.17	12.4	100.00

TOTAL AREA(ACRES) = 12.4

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 32.70 Tc(MIN.) = 9.302  
 EFFECTIVE AREA(ACRES) = 11.19 AREA-AVERAGED Fm(INCH/HR) = 0.09  
 AREA-AVERAGED Fp(INCH/HR) = 0.52 AREA-AVERAGED Ap = 0.17  
 TOTAL AREA(ACRES) = 12.4  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 152.00 = 1590.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 152.00 TO NODE 152.00 IS CODE = 12

>>>>CLEAR MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 152.00 TO NODE 172.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 658.21 DOWNSTREAM(FEET) = 655.78  
 FLOW LENGTH(FEET) = 486.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 33.0 INCH PIPE IS 22.9 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 7.43  
 ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 32.70  
 PIPE TRAVEL TIME(MIN.) = 1.09 Tc(MIN.) = 10.39  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 172.00 = 2076.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 172.00 TO NODE 172.00 IS CODE = 10

>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 160.00 TO NODE 161.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 485.00  
 ELEVATION DATA: UPSTREAM(FEET) = 671.89 DOWNSTREAM(FEET) = 665.78

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.652  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.196  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	1.90	0.42	0.100	76	8.65

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.39  
 TOTAL AREA(ACRES) = 1.90 PEAK FLOW RATE(CFS) = 5.39

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 161.00 TO NODE 171.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 661.78 DOWNSTREAM(FEET) = 661.27  
 FLOW LENGTH(FEET) = 102.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 11.0 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.78  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.39  
 PIPE TRAVEL TIME(MIN.) = 0.36 Tc(MIN.) = 9.01  
 LONGEST FLOWPATH FROM NODE 160.00 TO NODE 171.00 = 587.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 171.00 TO NODE 171.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 9.01  
 RAINFALL INTENSITY(INCH/HR) = 3.12  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.90  
 TOTAL STREAM AREA(ACRES) = 1.90



PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.39

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 170.00 TO NODE 171.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 485.00  
 ELEVATION DATA: UPSTREAM(FEET) = 671.33 DOWNSTREAM(FEET) = 665.78

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.820  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.159  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	1.85	0.42	0.100	76	8.82

SUBAREA AVERAGE PVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.19  
 TOTAL AREA(ACRES) = 1.85 PEAK FLOW RATE(CFS) = 5.19

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 171.00 TO NODE 171.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 8.82  
 RAINFALL INTENSITY(INCH/HR) = 3.16  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 1.85  
 TOTAL STREAM AREA(ACRES) = 1.85  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.19

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	5.39	9.01	3.120	0.42( 0.04)	0.10	1.9	160.00
2	5.19	8.82	3.159	0.42( 0.04)	0.10	1.9	170.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	10.54	8.82	3.159	0.42( 0.04)	0.10	3.7	170.00
2	10.52	9.01	3.120	0.42( 0.04)	0.10	3.8	160.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 10.54 Tc(MIN.) = 8.82  
 EFFECTIVE AREA(ACRES) = 3.71 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 3.8  
 LONGEST FLOWPATH FROM NODE 160.00 TO NODE 171.00 = 587.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 171.00 TO NODE 171.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 8.82  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.159  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	B	0.35	0.31	1.000	84

SUBAREA AVERAGE PVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
 SUBAREA AVERAGE PVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 0.35 SUBAREA RUNOFF(CFS) = 0.90

PR100A.RES

EFFECTIVE AREA(ACRES) = 4.06 AREA-AVERAGED Fm(INCH/HR) = 0.07  
 AREA-AVERAGED Fp(INCH/HR) = 0.37 AREA-AVERAGED Ap = 0.18  
 TOTAL AREA(ACRES) = 4.1 PEAK FLOW RATE(CFS) = 11.31

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 171.00 TO NODE 172.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 661.78 DOWNSTREAM(FEET) = 661.73  
 FLOW LENGTH(FEET) = 10.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 21.0 INCH PIPE IS 16.4 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.61  
 ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 11.31  
 PIPE TRAVEL TIME(MIN.) = 0.03 Tc(MIN.) = 8.85  
 LONGEST FLOWPATH FROM NODE 160.00 TO NODE 172.00 = 597.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 172.00 TO NODE 172.00 IS CODE = 11  
 -----

>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<

\*\* MAIN STREAM CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	11.31	8.85	3.153	0.37( 0.07)	0.18	4.1	170.00
2	11.27	9.04	3.114	0.37( 0.06)	0.18	4.1	160.00

LONGEST FLOWPATH FROM NODE 160.00 TO NODE 172.00 = 597.00 FEET.

\*\* MEMORY BANK # 1 CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	32.43	9.82	2.963	0.51( 0.09)	0.18	10.7	140.00
2	32.66	10.13	2.907	0.52( 0.09)	0.17	11.0	150.00
3	32.70	10.39	2.863	0.52( 0.09)	0.17	11.2	130.00
4	32.59	10.67	2.818	0.52( 0.09)	0.17	11.4	120.00
5	31.25	12.38	2.578	0.53( 0.09)	0.17	12.1	110.00
6	29.72	13.73	2.423	0.53( 0.09)	0.17	12.4	100.00

LONGEST FLOWPATH FROM NODE 100.00 TO NODE 172.00 = 2076.00 FEET.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	42.48	8.85	3.153	0.47( 0.08)	0.18	13.7	170.00
2	42.69	9.04	3.114	0.47( 0.08)	0.18	13.9	160.00
3	43.14	9.82	2.963	0.47( 0.08)	0.18	14.8	140.00
4	43.17	10.13	2.907	0.48( 0.08)	0.18	15.1	150.00
5	43.05	10.39	2.863	0.48( 0.08)	0.18	15.3	130.00
6	42.77	10.67	2.818	0.48( 0.08)	0.18	15.5	120.00
7	40.54	12.38	2.578	0.49( 0.09)	0.18	16.2	110.00
8	38.44	13.73	2.423	0.49( 0.09)	0.17	16.5	100.00

TOTAL AREA(ACRES) = 16.5

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 43.17 Tc(MIN.) = 10.132  
 EFFECTIVE AREA(ACRES) = 15.09 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.48 AREA-AVERAGED Ap = 0.18  
 TOTAL AREA(ACRES) = 16.5  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 172.00 = 2076.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 172.00 TO NODE 172.00 IS CODE = 12  
 -----

>>>>CLEAR MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 172.00 TO NODE 183.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 655.78 DOWNSTREAM(FEET) = 653.27  
 FLOW LENGTH(FEET) = 502.00 MANNING'S N = 0.012

DEPTH OF FLOW IN 36.0 INCH PIPE IS 25.9 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 7.94  
 ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 43.17  
 PIPE TRAVEL TIME(MIN.) = 1.05 Tc(MIN.) = 11.19  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 183.00 = 2578.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 183.00 TO NODE 183.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 11.19  
 RAINFALL INTENSITY(INCH/HR) = 2.74  
 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.48  
 AREA-AVERAGED Ap = 0.18  
 EFFECTIVE STREAM AREA(ACRES) = 15.09  
 TOTAL STREAM AREA(ACRES) = 16.50  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 43.17

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 180.00 TO NODE 181.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 505.00  
 ELEVATION DATA: UPSTREAM(FEET) = 671.33 DOWNSTREAM(FEET) = 665.78

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 9.036  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.114  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	1.95	0.42	0.100	76	9.04

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.39  
 TOTAL AREA(ACRES) = 1.95 PEAK FLOW RATE(CFS) = 5.39

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 181.00 TO NODE 182.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 661.78 DOWNSTREAM(FEET) = 661.27  
 FLOW LENGTH(FEET) = 102.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 11.0 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.79  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.39  
 PIPE TRAVEL TIME(MIN.) = 0.36 Tc(MIN.) = 9.39  
 LONGEST FLOWPATH FROM NODE 180.00 TO NODE 182.00 = 607.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 182.00 TO NODE 182.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 9.39  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.043  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	1.60	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.60 SUBAREA RUNOFF(CFS) = 4.32  
 EFFECTIVE AREA(ACRES) = 3.55 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 3.6 PEAK FLOW RATE(CFS) = 9.59

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 182.00 TO NODE 183.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 661.27 DOWNSTREAM(FEET) = 661.22  
 FLOW LENGTH(FEET) = 10.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 21.0 INCH PIPE IS 14.3 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.48  
 ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 9.59  
 PIPE TRAVEL TIME(MIN.) = 0.03 Tc(MIN.) = 9.42  
 LONGEST FLOWPATH FROM NODE 180.00 TO NODE 183.00 = 617.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 183.00 TO NODE 183.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 9.42  
 RAINFALL INTENSITY(INCH/HR) = 3.04  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 3.55  
 TOTAL STREAM AREA(ACRES) = 3.55  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 9.59

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	42.48	9.91	2.947	0.47( 0.08)	0.18	13.7	170.00
1	42.69	10.09	2.914	0.47( 0.08)	0.18	13.9	160.00
1	43.14	10.87	2.787	0.47( 0.08)	0.18	14.8	140.00
1	43.17	11.19	2.740	0.48( 0.08)	0.18	15.1	150.00
1	43.05	11.45	2.702	0.48( 0.08)	0.18	15.3	130.00
1	42.77	11.72	2.663	0.48( 0.08)	0.18	15.5	120.00
1	40.54	13.44	2.454	0.49( 0.09)	0.18	16.2	110.00
1	38.44	14.83	2.313	0.49( 0.09)	0.17	16.5	100.00
2	9.59	9.42	3.037	0.42( 0.04)	0.10	3.6	180.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	51.25	9.42	3.037	0.46( 0.07)	0.16	16.6	180.00
2	51.77	9.91	2.947	0.46( 0.07)	0.16	17.2	170.00
3	51.89	10.09	2.914	0.46( 0.07)	0.16	17.5	160.00
4	51.93	10.87	2.787	0.47( 0.08)	0.16	18.3	140.00
5	51.80	11.19	2.740	0.47( 0.08)	0.16	18.6	150.00
6	51.56	11.45	2.702	0.47( 0.08)	0.16	18.8	130.00
7	51.16	11.72	2.663	0.47( 0.08)	0.16	19.0	120.00
8	48.26	13.44	2.454	0.48( 0.08)	0.16	19.7	110.00
9	45.71	14.83	2.313	0.48( 0.08)	0.16	20.0	100.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:  
 PEAK FLOW RATE(CFS) = 51.93 Tc(MIN.) = 10.87  
 EFFECTIVE AREA(ACRES) = 18.33 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.47 AREA-AVERAGED Ap = 0.16  
 TOTAL AREA(ACRES) = 20.0  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 183.00 = 2578.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 183.00 TO NODE 192.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 653.27 DOWNSTREAM(FEET) = 652.26  
 FLOW LENGTH(FEET) = 202.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 39.0 INCH PIPE IS 27.4 INCHES

PIPE-FLOW VELOCITY(FEET/SEC.) = 8.33  
 ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 51.93  
 PIPE TRAVEL TIME(MIN.) = 0.40 Tc(MIN.) = 11.28  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 192.00 = 2780.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 192.00 TO NODE 192.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 11.28  
 RAINFALL INTENSITY(INCH/HR) = 2.73  
 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.47  
 AREA-AVERAGED Ap = 0.16  
 EFFECTIVE STREAM AREA(ACRES) = 18.33  
 TOTAL STREAM AREA(ACRES) = 20.05  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 51.93

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 190.00 TO NODE 191.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 285.00  
 ELEVATION DATA: UPSTREAM(FEET) = 669.46 DOWNSTREAM(FEET) = 665.42

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 6.831  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.683  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	0.45	0.42	0.100	76	6.83

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 1.47  
 TOTAL AREA(ACRES) = 0.45 PEAK FLOW RATE(CFS) = 1.47

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 191.00 TO NODE 191.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 6.83  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.683  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
NATURAL FAIR COVER "OPEN BRUSH"	B	0.35	0.31	1.000	84

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 1.000  
 SUBAREA AREA(ACRES) = 0.35 SUBAREA RUNOFF(CFS) = 1.06  
 EFFECTIVE AREA(ACRES) = 0.80 AREA-AVERAGED Fm(INCH/HR) = 0.16  
 AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.49  
 TOTAL AREA(ACRES) = 0.8 PEAK FLOW RATE(CFS) = 2.54

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 191.00 TO NODE 192.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 662.42 DOWNSTREAM(FEET) = 662.07  
 FLOW LENGTH(FEET) = 70.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 12.0 INCH PIPE IS 9.4 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 3.86  
 ESTIMATED PIPE DIAMETER(INCH) = 12.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 2.54  
 PIPE TRAVEL TIME(MIN.) = 0.30 Tc(MIN.) = 7.13  
 LONGEST FLOWPATH FROM NODE 190.00 TO NODE 192.00 = 355.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 192.00 TO NODE 192.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 7.13  
 RAINFALL INTENSITY(INCH/HR) = 3.59  
 AREA-AVERAGED Fm(INCH/HR) = 0.16  
 AREA-AVERAGED Fp(INCH/HR) = 0.32  
 AREA-AVERAGED Ap = 0.49  
 EFFECTIVE STREAM AREA(ACRES) = 0.80  
 TOTAL STREAM AREA(ACRES) = 0.80  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 2.54

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	51.25	9.83	2.961	0.46( 0.07)	0.16	16.6	180.00
1	51.77	10.31	2.877	0.46( 0.07)	0.16	17.2	170.00
1	51.89	10.50	2.846	0.46( 0.07)	0.16	17.5	160.00
1	51.93	11.28	2.726	0.47( 0.08)	0.16	18.3	140.00
1	51.80	11.59	2.682	0.47( 0.08)	0.16	18.6	150.00
1	51.56	11.85	2.646	0.47( 0.08)	0.16	18.8	130.00
1	51.16	12.13	2.610	0.47( 0.08)	0.16	19.0	120.00
1	48.26	13.86	2.409	0.48( 0.08)	0.16	19.7	110.00
1	45.71	15.25	2.274	0.48( 0.08)	0.16	20.0	100.00
2	2.54	7.13	3.588	0.32( 0.16)	0.49	0.8	190.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	47.83	7.13	3.588	0.44( 0.08)	0.18	12.8	190.00
2	53.33	9.83	2.961	0.45( 0.08)	0.18	17.4	180.00
3	53.79	10.31	2.877	0.45( 0.08)	0.18	18.0	170.00
4	53.87	10.50	2.846	0.45( 0.08)	0.18	18.3	160.00
5	53.83	11.28	2.726	0.45( 0.08)	0.18	19.1	140.00
6	53.67	11.59	2.682	0.45( 0.08)	0.17	19.4	150.00
7	53.40	11.85	2.646	0.45( 0.08)	0.17	19.6	130.00
8	52.98	12.13	2.610	0.46( 0.08)	0.17	19.8	120.00
9	49.93	13.86	2.409	0.46( 0.08)	0.17	20.5	110.00
10	47.27	15.25	2.274	0.47( 0.08)	0.17	20.8	100.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 53.87 Tc(MIN.) = 10.50  
 EFFECTIVE AREA(ACRES) = 18.28 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.45 AREA-AVERAGED Ap = 0.18  
 TOTAL AREA(ACRES) = 20.8  
 LONGEST FLOWPATH FROM NODE 100.00 TO NODE 192.00 = 2780.00 FEET.

=====

END OF STUDY SUMMARY:

TOTAL AREA(ACRES) = 20.8 TC(MIN.) = 10.50  
 EFFECTIVE AREA(ACRES) = 18.28 AREA-AVERAGED Fm(INCH/HR) = 0.08  
 AREA-AVERAGED Fp(INCH/HR) = 0.45 AREA-AVERAGED Ap = 0.175  
 PEAK FLOW RATE(CFS) = 53.87

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	47.83	7.13	3.588	0.44( 0.08)	0.18	12.8	190.00
2	53.33	9.83	2.961	0.45( 0.08)	0.18	17.4	180.00
3	53.79	10.31	2.877	0.45( 0.08)	0.18	18.0	170.00
4	53.87	10.50	2.846	0.45( 0.08)	0.18	18.3	160.00
5	53.83	11.28	2.726	0.45( 0.08)	0.18	19.1	140.00
6	53.67	11.59	2.682	0.45( 0.08)	0.17	19.4	150.00
7	53.40	11.85	2.646	0.45( 0.08)	0.17	19.6	130.00
8	52.98	12.13	2.610	0.46( 0.08)	0.17	19.8	120.00
9	49.93	13.86	2.409	0.46( 0.08)	0.17	20.5	110.00
10	47.27	15.25	2.274	0.47( 0.08)	0.17	20.8	100.00

=====

END OF RATIONAL METHOD ANALYSIS

\*\*\*\*\*

RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE  
 (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)  
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Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO \*  
 \* PROPOSED CONDITION 100-YEAR \*  
 \* SOUTHERLY PORTION OF SITE (BUILDINGS 1-3) \*  
 \*\*\*\*\*

FILE NAME: W:\3654\PR100B.DAT  
 TIME/DATE OF STUDY: 22:23 12/12/2020

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USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:

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--\*TIME-OF-CONCENTRATION MODEL\*--

USER SPECIFIED STORM EVENT(YEAR) = 100.00  
 SPECIFIED MINIMUM PIPE SIZE(INCH) = 12.00  
 SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
 \*USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL\*

SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000  
 USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

\*ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD\*

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	WIDTH (FT)	CROWN TO CROSSFALL (FT)	STREET-CROSSFALL: IN- / OUT- / PARK- SIDE / SIDE / WAY	CURB HEIGHT (FT)	GUTTER WIDTH (FT)	LIP (FT)	HIKE (FT)	MANNING FACTOR (n)
1	30.0	20.0	0.018/0.018/0.020	0.67	2.00	0.0312	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:  
 1. Relative Flow-Depth = 0.00 FEET  
 as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)  
 2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)

\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
 OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*  
 \*USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

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FLOW PROCESS FROM NODE 200.00 TO NODE 201.00 IS CODE = 21

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>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

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INITIAL SUBAREA FLOW-LENGTH(FEET) = 455.00  
 ELEVATION DATA: UPSTREAM(FEET) = 669.90 DOWNSTREAM(FEET) = 663.67

$T_c = K * [(LENGTH^{**} 3.00) / (ELEVATION CHANGE)]^{**} 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 8.294  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.278  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	2.60	0.74	0.100	52	8.29
COMMERCIAL	C	1.45	0.27	0.100	86	8.29

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.57  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 11.74  
 TOTAL AREA(ACRES) = 4.05 PEAK FLOW RATE(CFS) = 11.74

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FLOW PROCESS FROM NODE 201.00 TO NODE 202.00 IS CODE = 31

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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 659.67 DOWNSTREAM(FEET) = 658.72
FLOW LENGTH(FEET) = 190.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 21.0 INCH PIPE IS 17.1 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.61
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 11.74
PIPE TRAVEL TIME(MIN.) = 0.56 Tc(MIN.) = 8.86
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 202.00 = 645.00 FEET.

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FLOW PROCESS FROM NODE 202.00 TO NODE 202.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 8.86
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.151
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL A 0.95 0.74 0.100 52
COMMERCIAL C 0.95 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.51
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 5.30
EFFECTIVE AREA(ACRES) = 5.95 AREA-AVERAGED Fm(INCH/HR) = 0.06
AREA-AVERAGED Fp(INCH/HR) = 0.55 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 6.0 PEAK FLOW RATE(CFS) = 16.58

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FLOW PROCESS FROM NODE 202.00 TO NODE 203.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 658.72 DOWNSTREAM(FEET) = 657.82
FLOW LENGTH(FEET) = 180.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 19.3 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.13
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 16.58
PIPE TRAVEL TIME(MIN.) = 0.49 Tc(MIN.) = 9.35
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 203.00 = 825.00 FEET.

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FLOW PROCESS FROM NODE 203.00 TO NODE 203.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 9.35
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.051
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL A 0.65 0.74 0.100 52
COMMERCIAL C 1.25 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.43
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 5.14
EFFECTIVE AREA(ACRES) = 7.85 AREA-AVERAGED Fm(INCH/HR) = 0.05
AREA-AVERAGED Fp(INCH/HR) = 0.52 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 7.9 PEAK FLOW RATE(CFS) = 21.19

\*\*\*\*\*
FLOW PROCESS FROM NODE 203.00 TO NODE 204.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 657.82 DOWNSTREAM(FEET) = 656.92
FLOW LENGTH(FEET) = 180.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 27.0 INCH PIPE IS 20.3 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.60
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 21.19



PIPE TRAVEL TIME(MIN.) = 0.45 Tc(MIN.) = 9.80  
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 204.00 = 1005.00 FEET.

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FLOW PROCESS FROM NODE 204.00 TO NODE 204.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 9.80  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.965  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL A 0.15 0.74 0.100 52  
COMMERCIAL C 1.75 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.31  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 5.02  
EFFECTIVE AREA(ACRES) = 9.75 AREA-AVERAGED Fm(INCH/HR) = 0.05  
AREA-AVERAGED Fp(INCH/HR) = 0.48 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 9.8 PEAK FLOW RATE(CFS) = 25.60

\*\*\*\*\*

FLOW PROCESS FROM NODE 204.00 TO NODE 205.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 656.92 DOWNSTREAM(FEET) = 656.01  
FLOW LENGTH(FEET) = 182.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 30.0 INCH PIPE IS 21.0 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.99  
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 25.60  
PIPE TRAVEL TIME(MIN.) = 0.43 Tc(MIN.) = 10.24  
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 205.00 = 1187.00 FEET.

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FLOW PROCESS FROM NODE 205.00 TO NODE 205.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 10.24  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.889  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 4.00 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 4.00 SUBAREA RUNOFF(CFS) = 10.30  
EFFECTIVE AREA(ACRES) = 13.75 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 13.8 PEAK FLOW RATE(CFS) = 35.23

\*\*\*\*\*

FLOW PROCESS FROM NODE 205.00 TO NODE 205.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 10.24  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.889  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL A 0.25 0.74 0.100 52  
COMMERCIAL A 0.35 0.74 0.100 52  
COMMERCIAL A 0.30 0.74 0.100 52  
COMMERCIAL C 0.35 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.61  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.25 SUBAREA RUNOFF(CFS) = 3.18  
EFFECTIVE AREA(ACRES) = 15.00 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.44 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 15.0 PEAK FLOW RATE(CFS) = 38.42

\*\*\*\*\*

FLOW PROCESS FROM NODE 205.00 TO NODE 217.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 656.01 DOWNSTREAM(FEET) = 650.54  
 FLOW LENGTH(FEET) = 1094.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 33.0 INCH PIPE IS 26.3 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 7.58  
 ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 38.42  
 PIPE TRAVEL TIME(MIN.) = 2.41 Tc(MIN.) = 12.64  
 LONGEST FLOWPATH FROM NODE 200.00 TO NODE 217.00 = 2281.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 217.00 TO NODE 217.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 12.64  
 RAINFALL INTENSITY(INCH/HR) = 2.55  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.44  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 15.00  
 TOTAL STREAM AREA(ACRES) = 15.00  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 38.42

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 206.00 TO NODE 207.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 225.00  
 ELEVATION DATA: UPSTREAM(FEET) = 667.76 DOWNSTREAM(FEET) = 666.04

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 7.032  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.619  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	A	0.90	0.74	0.100	52	7.03

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.74  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 2.87  
 TOTAL AREA(ACRES) = 0.90 PEAK FLOW RATE(CFS) = 2.87

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 207.00 TO NODE 208.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 663.04 DOWNSTREAM(FEET) = 662.07  
 FLOW LENGTH(FEET) = 194.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 15.0 INCH PIPE IS 8.3 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.10  
 ESTIMATED PIPE DIAMETER(INCH) = 15.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 2.87  
 PIPE TRAVEL TIME(MIN.) = 0.79 Tc(MIN.) = 7.82  
 LONGEST FLOWPATH FROM NODE 206.00 TO NODE 208.00 = 419.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 208.00 TO NODE 208.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 7.82  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.396  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	C	0.30	0.27	0.100	86

PR100B.RES

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.30 SUBAREA RUNOFF(CFS) = 0.91  
EFFECTIVE AREA(ACRES) = 1.20 AREA-AVERAGED Fm(INCH/HR) = 0.06  
AREA-AVERAGED Fp(INCH/HR) = 0.62 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 1.2 PEAK FLOW RATE(CFS) = 3.60

\*\*\*\*\*  
FLOW PROCESS FROM NODE 208.00 TO NODE 209.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 662.07 DOWNSTREAM(FEET) = 661.24  
FLOW LENGTH(FEET) = 186.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 15.0 INCH PIPE IS 10.1 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 4.11  
ESTIMATED PIPE DIAMETER(INCH) = 15.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 3.60  
PIPE TRAVEL TIME(MIN.) = 0.75 Tc(MIN.) = 8.57  
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 209.00 = 605.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 209.00 TO NODE 209.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

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MAINLINE Tc(MIN.) = 8.57  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.213  
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	C	0.30	0.27	0.100	86

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.30 SUBAREA RUNOFF(CFS) = 0.86  
EFFECTIVE AREA(ACRES) = 1.50 AREA-AVERAGED Fm(INCH/HR) = 0.06  
AREA-AVERAGED Fp(INCH/HR) = 0.55 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 1.5 PEAK FLOW RATE(CFS) = 4.26

\*\*\*\*\*  
FLOW PROCESS FROM NODE 209.00 TO NODE 210.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 661.24 DOWNSTREAM(FEET) = 657.40  
FLOW LENGTH(FEET) = 444.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 15.0 INCH PIPE IS 9.0 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.55  
ESTIMATED PIPE DIAMETER(INCH) = 15.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 4.26  
PIPE TRAVEL TIME(MIN.) = 1.33 Tc(MIN.) = 9.91  
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 210.00 = 1049.00 FEET.

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FLOW PROCESS FROM NODE 210.00 TO NODE 210.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

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MAINLINE Tc(MIN.) = 9.91  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.946  
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	C	1.85	0.27	0.100	86

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.85 SUBAREA RUNOFF(CFS) = 4.86  
EFFECTIVE AREA(ACRES) = 3.35 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 3.3 PEAK FLOW RATE(CFS) = 8.76

\*\*\*\*\*  
FLOW PROCESS FROM NODE 210.00 TO NODE 211.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<

>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

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=====
ELEVATION DATA: UPSTREAM(FEET) = 657.40 DOWNSTREAM(FEET) = 656.70
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 21.0 INCH PIPE IS 13.4 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.39
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 8.76
PIPE TRAVEL TIME(MIN.) = 0.43 Tc(MIN.) = 10.34
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 211.00 = 1189.00 FEET.
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\*\*\*\*\*  
 FLOW PROCESS FROM NODE 211.00 TO NODE 211.00 IS CODE = 81  
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>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

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=====
MAINLINE Tc(MIN.) = 10.34
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.872
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL  AREA    Fp      Ap    SCS
LAND USE            GROUP  (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          C      1.70    0.27    0.100  86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.70 SUBAREA RUNOFF(CFS) = 4.35
EFFECTIVE AREA(ACRES) = 5.05 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 5.1 PEAK FLOW RATE(CFS) = 12.89
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\*\*\*\*\*  
 FLOW PROCESS FROM NODE 211.00 TO NODE 212.00 IS CODE = 31  
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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

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ELEVATION DATA: UPSTREAM(FEET) = 656.70 DOWNSTREAM(FEET) = 656.00
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 15.7 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.92
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 12.89
PIPE TRAVEL TIME(MIN.) = 0.39 Tc(MIN.) = 10.73
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 212.00 = 1329.00 FEET.
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\*\*\*\*\*  
 FLOW PROCESS FROM NODE 212.00 TO NODE 212.00 IS CODE = 81  
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>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

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=====
MAINLINE Tc(MIN.) = 10.73
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.808
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL  AREA    Fp      Ap    SCS
LAND USE            GROUP  (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          C      1.30    0.27    0.100  86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.30 SUBAREA RUNOFF(CFS) = 3.25
EFFECTIVE AREA(ACRES) = 6.35 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.34 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 6.4 PEAK FLOW RATE(CFS) = 15.85
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\*\*\*\*\*  
 FLOW PROCESS FROM NODE 212.00 TO NODE 213.00 IS CODE = 31  
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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

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ELEVATION DATA: UPSTREAM(FEET) = 656.00 DOWNSTREAM(FEET) = 655.30
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 18.5 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.11
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 15.85
PIPE TRAVEL TIME(MIN.) = 0.38 Tc(MIN.) = 11.12
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 213.00 = 1469.00 FEET.
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\*\*\*\*\*  
FLOW PROCESS FROM NODE 213.00 TO NODE 213.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 11.12  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.750  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 1.70 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.70 SUBAREA RUNOFF(CFS) = 4.17  
EFFECTIVE AREA(ACRES) = 8.05 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 8.1 PEAK FLOW RATE(CFS) = 19.69

\*\*\*\*\*  
FLOW PROCESS FROM NODE 213.00 TO NODE 214.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 655.30 DOWNSTREAM(FEET) = 654.60  
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 27.0 INCH PIPE IS 19.1 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.53  
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 19.69  
PIPE TRAVEL TIME(MIN.) = 0.36 Tc(MIN.) = 11.47  
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 214.00 = 1609.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 214.00 TO NODE 214.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 11.47  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.698  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 1.30 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.30 SUBAREA RUNOFF(CFS) = 3.13  
EFFECTIVE AREA(ACRES) = 9.35 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 9.4 PEAK FLOW RATE(CFS) = 22.44

\*\*\*\*\*  
FLOW PROCESS FROM NODE 214.00 TO NODE 215.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 654.60 DOWNSTREAM(FEET) = 653.90  
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 27.0 INCH PIPE IS 21.4 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.63  
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 22.44  
PIPE TRAVEL TIME(MIN.) = 0.35 Tc(MIN.) = 11.83  
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 215.00 = 1749.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 215.00 TO NODE 215.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 11.83  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.650  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 1.70 0.27 0.100 86

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.70 SUBAREA RUNOFF(CFS) = 4.01
EFFECTIVE AREA(ACRES) = 11.05 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.31 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 11.1 PEAK FLOW RATE(CFS) = 26.04

\*\*\*\*\*
FLOW PROCESS FROM NODE 215.00 TO NODE 216.00 IS CODE = 31
-----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 653.90 DOWNSTREAM(FEET) = 653.20
FLOW LENGTH(FEET) = 140.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 30.0 INCH PIPE IS 21.2 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.01
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 26.04
PIPE TRAVEL TIME(MIN.) = 0.33 Tc(MIN.) = 12.16
LONGEST FLOWPATH FROM NODE 206.00 TO NODE 216.00 = 1889.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 216.00 TO NODE 216.00 IS CODE = 81
-----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 12.16
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.606
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 1.40 0.42 0.100 76
COMMERCIAL C 1.20 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.35
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 2.60 SUBAREA RUNOFF(CFS) = 6.02
EFFECTIVE AREA(ACRES) = 13.65 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 13.6 PEAK FLOW RATE(CFS) = 31.62

\*\*\*\*\*
FLOW PROCESS FROM NODE 216.00 TO NODE 216.00 IS CODE = 81
-----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 12.16
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.606
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 0.30 0.42 0.100 76
COMMERCIAL B 0.35 0.42 0.100 76
COMMERCIAL C 0.60 0.27 0.100 86
COMMERCIAL C 0.20 0.27 0.100 86
COMMERCIAL C 0.20 0.27 0.100 86
COMMERCIAL C 0.25 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.32
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 4.40
EFFECTIVE AREA(ACRES) = 15.55 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 15.5 PEAK FLOW RATE(CFS) = 36.02

\*\*\*\*\*
FLOW PROCESS FROM NODE 216.00 TO NODE 217.00 IS CODE = 31
-----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 653.20 DOWNSTREAM(FEET) = 651.73
FLOW LENGTH(FEET) = 294.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 33.0 INCH PIPE IS 24.7 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.54
ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 36.02
PIPE TRAVEL TIME(MIN.) = 0.65 Tc(MIN.) = 12.81

LONGEST FLOWPATH FROM NODE 206.00 TO NODE 217.00 = 2183.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 217.00 TO NODE 217.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<

TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:
TIME OF CONCENTRATION(MIN.) = 12.81
RAINFALL INTENSITY(INCH/HR) = 2.53
AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.32
AREA-AVERAGED Ap = 0.10
EFFECTIVE STREAM AREA(ACRES) = 15.55
TOTAL STREAM AREA(ACRES) = 15.55
PEAK FLOW RATE(CFS) AT CONFLUENCE = 36.02

\*\* CONFLUENCE DATA \*\*

Table with 8 columns: STREAM NUMBER, Q (CFS), Tc (MIN.), Intensity (INCH/HR), Fp(Fm) (INCH/HR), Ap, Ae (ACRES), HEADWATER NODE. Rows for streams 1 and 2.

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

Table with 8 columns: STREAM NUMBER, Q (CFS), Tc (MIN.), Intensity (INCH/HR), Fp(Fm) (INCH/HR), Ap, Ae (ACRES), HEADWATER NODE. Rows for streams 1 and 2.

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 74.25 Tc(MIN.) = 12.64
EFFECTIVE AREA(ACRES) = 30.35 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 30.5
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 217.00 = 2281.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 219.00 TO NODE 242.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.54 DOWNSTREAM(FEET) = 649.79
FLOW LENGTH(FEET) = 150.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 42.0 INCH PIPE IS 34.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.91
ESTIMATED PIPE DIAMETER(INCH) = 42.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 74.25
PIPE TRAVEL TIME(MIN.) = 0.28 Tc(MIN.) = 12.92
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 242.00 = 2431.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 242.00 TO NODE 242.00 IS CODE = 10

>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<

\*\*\*\*\*
FLOW PROCESS FROM NODE 220.00 TO NODE 221.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 455.00
ELEVATION DATA: UPSTREAM(FEET) = 667.05 DOWNSTREAM(FEET) = 658.73

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 7.828
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.394
SUBAREA Tc AND LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS Tc
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)

PR100B.RES  
 COMMERCIAL C 1.95 0.27 0.100 86 7.83  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.91  
 TOTAL AREA(ACRES) = 1.95 PEAK FLOW RATE(CFS) = 5.91

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 221.00 TO NODE 222.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 655.73 DOWNSTREAM(FEET) = 654.82  
 FLOW LENGTH(FEET) = 182.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 11.7 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.88  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.91  
 PIPE TRAVEL TIME(MIN.) = 0.62 Tc(MIN.) = 8.45  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 222.00 = 637.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 222.00 TO NODE 222.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 8.45  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.242  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL C 0.50 0.27 0.100 86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.50 SUBAREA RUNOFF(CFS) = 1.45  
 EFFECTIVE AREA(ACRES) = 2.45 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 2.5 PEAK FLOW RATE(CFS) = 7.09

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 222.00 TO NODE 223.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 654.82 DOWNSTREAM(FEET) = 654.25  
 FLOW LENGTH(FEET) = 114.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 13.4 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.03  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 7.09  
 PIPE TRAVEL TIME(MIN.) = 0.38 Tc(MIN.) = 8.83  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 223.00 = 751.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 223.00 TO NODE 223.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 8.83  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.158  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL C 0.15 0.27 0.100 86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.15 SUBAREA RUNOFF(CFS) = 0.42  
 EFFECTIVE AREA(ACRES) = 2.60 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 2.6 PEAK FLOW RATE(CFS) = 7.33

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 223.00 TO NODE 224.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<



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=====
ELEVATION DATA: UPSTREAM(FEET) = 654.25 DOWNSTREAM(FEET) = 653.60
FLOW LENGTH(FEET) = 130.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 18.0 INCH PIPE IS 13.8 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.04
ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 7.33
PIPE TRAVEL TIME(MIN.) = 0.43 Tc(MIN.) = 9.26
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 224.00 = 881.00 FEET.

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*****
FLOW PROCESS FROM NODE 224.00 TO NODE 224.00 IS CODE = 81

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>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

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=====
MAINLINE Tc(MIN.) = 9.26
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.069
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL C 0.45 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.45 SUBAREA RUNOFF(CFS) = 1.23
EFFECTIVE AREA(ACRES) = 3.05 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 3.1 PEAK FLOW RATE(CFS) = 8.35

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*****
FLOW PROCESS FROM NODE 224.00 TO NODE 225.00 IS CODE = 31

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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

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=====
ELEVATION DATA: UPSTREAM(FEET) = 653.60 DOWNSTREAM(FEET) = 652.88
FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 21.0 INCH PIPE IS 13.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.33
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 8.35
PIPE TRAVEL TIME(MIN.) = 0.45 Tc(MIN.) = 9.71
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 225.00 = 1025.00 FEET.

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*****
FLOW PROCESS FROM NODE 225.00 TO NODE 225.00 IS CODE = 81

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>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

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=====
MAINLINE Tc(MIN.) = 9.71
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.983
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL C 0.55 0.27 0.100 86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.55 SUBAREA RUNOFF(CFS) = 1.46
EFFECTIVE AREA(ACRES) = 3.60 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 3.6 PEAK FLOW RATE(CFS) = 9.58

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*****
FLOW PROCESS FROM NODE 225.00 TO NODE 226.00 IS CODE = 31

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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

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=====
ELEVATION DATA: UPSTREAM(FEET) = 652.88 DOWNSTREAM(FEET) = 652.16
FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 21.0 INCH PIPE IS 14.3 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.48
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 9.58
PIPE TRAVEL TIME(MIN.) = 0.44 Tc(MIN.) = 10.15
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 226.00 = 1169.00 FEET.

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FLOW PROCESS FROM NODE 226.00 TO NODE 226.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 10.15  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.905  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL C 0.45 0.27 0.100 86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.45 SUBAREA RUNOFF(CFS) = 1.17  
 EFFECTIVE AREA(ACRES) = 4.05 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 4.1 PEAK FLOW RATE(CFS) = 10.49

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 226.00 TO NODE 227.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 652.16 DOWNSTREAM(FEET) = 651.44  
 FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 21.0 INCH PIPE IS 15.4 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.56  
 ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 10.49  
 PIPE TRAVEL TIME(MIN.) = 0.43 Tc(MIN.) = 10.58  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 227.00 = 1313.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 227.00 TO NODE 227.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 10.58  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.833  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL C 0.55 0.27 0.100 86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.55 SUBAREA RUNOFF(CFS) = 1.39  
 EFFECTIVE AREA(ACRES) = 4.60 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 4.6 PEAK FLOW RATE(CFS) = 11.62

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 227.00 TO NODE 228.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 651.44 DOWNSTREAM(FEET) = 650.72  
 FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 21.0 INCH PIPE IS 16.9 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 5.61  
 ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 11.62  
 PIPE TRAVEL TIME(MIN.) = 0.43 Tc(MIN.) = 11.01  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 228.00 = 1457.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 228.00 TO NODE 228.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 11.01  
 \* 100 Year RAINFALL INTENSITY(INCH/HR) = 2.767  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL C 0.55 0.27 0.100 86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27

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SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.55 SUBAREA RUNOFF(CFS) = 1.36
EFFECTIVE AREA(ACRES) = 5.15 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 5.2 PEAK FLOW RATE(CFS) = 12.70

\*\*\*\*\*
FLOW PROCESS FROM NODE 228.00 TO NODE 229.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.72 DOWNSTREAM(FEET) = 650.00
FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 15.5 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.91
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 12.70
PIPE TRAVEL TIME(MIN.) = 0.41 Tc(MIN.) = 11.41
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 229.00 = 1601.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 229.00 TO NODE 229.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 11.41
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.707
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 0.45 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.45 SUBAREA RUNOFF(CFS) = 1.08
EFFECTIVE AREA(ACRES) = 5.60 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.28 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 5.6 PEAK FLOW RATE(CFS) = 13.50

\*\*\*\*\*
FLOW PROCESS FROM NODE 229.00 TO NODE 230.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.00 DOWNSTREAM(FEET) = 649.28
FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 16.2 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.97
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 13.50
PIPE TRAVEL TIME(MIN.) = 0.40 Tc(MIN.) = 11.81
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 230.00 = 1745.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 230.00 TO NODE 230.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 11.81
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.651
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 0.55 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.55 SUBAREA RUNOFF(CFS) = 1.29
EFFECTIVE AREA(ACRES) = 6.15 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.30 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 6.2 PEAK FLOW RATE(CFS) = 14.51

\*\*\*\*\*
FLOW PROCESS FROM NODE 230.00 TO NODE 231.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 649.28 DOWNSTREAM(FEET) = 648.56
FLOW LENGTH(FEET) = 144.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 17.1 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.05
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 14.51
PIPE TRAVEL TIME(MIN.) = 0.40 Tc(MIN.) = 12.21
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 231.00 = 1889.00 FEET.
*****
FLOW PROCESS FROM NODE 231.00 TO NODE 231.00 IS CODE = 81
-----
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<
=====
MAINLINE Tc(MIN.) = 12.21
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.599
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 0.80 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.80 SUBAREA RUNOFF(CFS) = 1.84
EFFECTIVE AREA(ACRES) = 6.95 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.31 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 7.0 PEAK FLOW RATE(CFS) = 16.06
*****
FLOW PROCESS FROM NODE 231.00 TO NODE 232.00 IS CODE = 31
-----
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<
=====
ELEVATION DATA: UPSTREAM(FEET) = 648.56 DOWNSTREAM(FEET) = 646.84
FLOW LENGTH(FEET) = 354.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 18.9 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.04
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 16.06
PIPE TRAVEL TIME(MIN.) = 0.98 Tc(MIN.) = 13.19
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 232.00 = 2243.00 FEET.
*****
FLOW PROCESS FROM NODE 232.00 TO NODE 232.00 IS CODE = 81
-----
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<
=====
MAINLINE Tc(MIN.) = 13.19
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.482
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 0.70 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.70 SUBAREA RUNOFF(CFS) = 1.54
EFFECTIVE AREA(ACRES) = 7.65 AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.32 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 7.7 PEAK FLOW RATE(CFS) = 16.87
*****
FLOW PROCESS FROM NODE 232.00 TO NODE 233.00 IS CODE = 31
-----
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<
=====
ELEVATION DATA: UPSTREAM(FEET) = 648.84 DOWNSTREAM(FEET) = 647.81
FLOW LENGTH(FEET) = 206.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 19.6 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.13
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 16.87
PIPE TRAVEL TIME(MIN.) = 0.56 Tc(MIN.) = 13.75
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 233.00 = 2449.00 FEET.
*****

```

FLOW PROCESS FROM NODE 233.00 TO NODE 233.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 13.75  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.421  
 SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	0.65	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.65 SUBAREA RUNOFF(CFS) = 1.39  
 EFFECTIVE AREA(ACRES) = 8.30 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.33 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 8.3 PEAK FLOW RATE(CFS) = 17.84

\*\*\*\*\*

FLOW PROCESS FROM NODE 233.00 TO NODE 241.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 647.81 DOWNSTREAM(FEET) = 645.70  
 FLOW LENGTH(FEET) = 422.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 27.0 INCH PIPE IS 17.8 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 6.42  
 ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 17.84  
 PIPE TRAVEL TIME(MIN.) = 1.10 Tc(MIN.) = 14.84  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 241.00 = 2871.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 14.84  
 RAINFALL INTENSITY(INCH/HR) = 2.31  
 AREA-AVERAGED Fm(INCH/HR) = 0.03  
 AREA-AVERAGED Fp(INCH/HR) = 0.33  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 8.30  
 TOTAL STREAM AREA(ACRES) = 8.30  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 17.84

\*\*\*\*\*

FLOW PROCESS FROM NODE 235.00 TO NODE 236.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

INITIAL SUBAREA FLOW-LENGTH(FEET) = 315.00  
 ELEVATION DATA: UPSTREAM(FEET) = 662.75 DOWNSTREAM(FEET) = 656.69

$T_c = K * [(LENGTH ** 3.00) / (ELEVATION CHANGE)] ** 0.20$   
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 6.689  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.730  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	C	3.20	0.27	0.100	86	6.69

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 10.66  
 TOTAL AREA(ACRES) = 3.20 PEAK FLOW RATE(CFS) = 10.66

\*\*\*\*\*

FLOW PROCESS FROM NODE 236.00 TO NODE 237.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 652.69 DOWNSTREAM(FEET) = 651.89  
 FLOW LENGTH(FEET) = 160.00 MANNING'S N = 0.012

DEPTH OF FLOW IN 21.0 INCH PIPE IS 15.6 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 5.57  
ESTIMATED PIPE DIAMETER(INCH) = 21.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 10.66  
PIPE TRAVEL TIME(MIN.) = 0.48 Tc(MIN.) = 7.17  
LONGEST FLOWPATH FROM NODE 235.00 TO NODE 237.00 = 475.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 237.00 TO NODE 237.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 7.17  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.578  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 1.60 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.60 SUBAREA RUNOFF(CFS) = 5.11  
EFFECTIVE AREA(ACRES) = 4.80 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 4.8 PEAK FLOW RATE(CFS) = 15.34

\*\*\*\*\*  
FLOW PROCESS FROM NODE 237.00 TO NODE 238.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 651.89 DOWNSTREAM(FEET) = 651.09  
FLOW LENGTH(FEET) = 160.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 24.0 INCH PIPE IS 17.9 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.09  
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 15.34  
PIPE TRAVEL TIME(MIN.) = 0.44 Tc(MIN.) = 7.61  
LONGEST FLOWPATH FROM NODE 235.00 TO NODE 238.00 = 635.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 238.00 TO NODE 238.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 7.61  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.453  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL C 1.60 0.27 0.100 86  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.60 SUBAREA RUNOFF(CFS) = 4.93  
EFFECTIVE AREA(ACRES) = 6.40 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 6.4 PEAK FLOW RATE(CFS) = 19.73

\*\*\*\*\*  
FLOW PROCESS FROM NODE 238.00 TO NODE 239.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 651.09 DOWNSTREAM(FEET) = 650.29  
FLOW LENGTH(FEET) = 160.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 27.0 INCH PIPE IS 19.2 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.54  
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 19.73  
PIPE TRAVEL TIME(MIN.) = 0.41 Tc(MIN.) = 8.01  
LONGEST FLOWPATH FROM NODE 235.00 TO NODE 239.00 = 795.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 239.00 TO NODE 239.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

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=====
MAINLINE Tc(MIN.) = 8.01
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.347
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
LAND USE           GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL         C         1.60   0.27  0.100  86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.27
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.60   SUBAREA RUNOFF(CFS) = 4.78
EFFECTIVE AREA(ACRES) = 8.00   AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.27 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 8.0   PEAK FLOW RATE(CFS) = 23.90
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 239.00 TO NODE 240.00 IS CODE = 31

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>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
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=====
ELEVATION DATA: UPSTREAM(FEET) = 650.29 DOWNSTREAM(FEET) = 649.49
FLOW LENGTH(FEET) = 160.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 30.0 INCH PIPE IS 19.9 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.90
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 23.90
PIPE TRAVEL TIME(MIN.) = 0.39 Tc(MIN.) = 8.40
LONGEST FLOWPATH FROM NODE 235.00 TO NODE 240.00 = 955.00 FEET.
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 240.00 TO NODE 240.00 IS CODE = 81

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>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
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=====
MAINLINE Tc(MIN.) = 8.40
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.253
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
LAND USE           GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL         B         1.30   0.42  0.100  76
COMMERCIAL         C         0.30   0.27  0.100  86
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.39
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.60   SUBAREA RUNOFF(CFS) = 4.63
EFFECTIVE AREA(ACRES) = 9.60   AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.29 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 9.6   PEAK FLOW RATE(CFS) = 27.86
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 240.00 TO NODE 241.00 IS CODE = 31

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-----
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
```

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 649.49 DOWNSTREAM(FEET) = 648.69
FLOW LENGTH(FEET) = 160.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 30.0 INCH PIPE IS 22.4 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.07
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 27.86
PIPE TRAVEL TIME(MIN.) = 0.38 Tc(MIN.) = 8.78
LONGEST FLOWPATH FROM NODE 235.00 TO NODE 241.00 = 1115.00 FEET.
    
```

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 81

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-----
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
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=====
MAINLINE Tc(MIN.) = 8.78
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.169
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
LAND USE           GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL         B         3.55   0.42  0.100  76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 3.55   SUBAREA RUNOFF(CFS) = 9.99
    
```

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EFFECTIVE AREA(ACRES) = 13.15 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.33 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 13.2 PEAK FLOW RATE(CFS) = 37.11

\*\*\*\*\*  
FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
TIME OF CONCENTRATION(MIN.) = 8.78  
RAINFALL INTENSITY(INCH/HR) = 3.17  
AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.33  
AREA-AVERAGED Ap = 0.10  
EFFECTIVE STREAM AREA(ACRES) = 13.15  
TOTAL STREAM AREA(ACRES) = 13.15  
PEAK FLOW RATE(CFS) AT CONFLUENCE = 37.11

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	17.84	14.84	2.312	0.33( 0.03)	0.10	8.3	220.00
2	37.11	8.78	3.169	0.33( 0.03)	0.10	13.2	235.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	51.63	8.78	3.169	0.33( 0.03)	0.10	18.1	235.00
2	44.81	14.84	2.312	0.33( 0.03)	0.10	21.5	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 51.63 Tc(MIN.) = 8.78  
EFFECTIVE AREA(ACRES) = 18.06 AREA-AVERAGED Fm(INCH/HR) = 0.03  
AREA-AVERAGED Fp(INCH/HR) = 0.33 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 21.5  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 241.00 = 2871.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 241.00 TO NODE 242.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 648.69 DOWNSTREAM(FEET) = 647.29  
FLOW LENGTH(FEET) = 280.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 39.0 INCH PIPE IS 27.3 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.33  
ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 51.63  
PIPE TRAVEL TIME(MIN.) = 0.56 Tc(MIN.) = 9.34  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 242.00 = 3151.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 242.00 TO NODE 242.00 IS CODE = 11

>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<

\*\* MAIN STREAM CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	51.63	9.34	3.053	0.33( 0.03)	0.10	18.1	235.00
2	44.81	15.43	2.259	0.33( 0.03)	0.10	21.5	220.00

LONGEST FLOWPATH FROM NODE 220.00 TO NODE 242.00 = 3151.00 FEET.

\*\* MEMORY BANK # 1 CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	74.25	12.92	2.512	0.38( 0.04)	0.10	30.3	200.00
2	74.13	13.09	2.493	0.38( 0.04)	0.10	30.5	206.00

LONGEST FLOWPATH FROM NODE 200.00 TO NODE 242.00 = 2431.00 FEET.



\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	117.01	9.34	3.053	0.36( 0.04)	0.10	40.0	235.00
2	121.87	12.92	2.512	0.36( 0.04)	0.10	50.4	200.00
3	121.56	13.09	2.493	0.36( 0.04)	0.10	50.7	206.00
4	111.88	15.43	2.259	0.36( 0.04)	0.10	52.0	220.00
TOTAL AREA(ACRES) =			52.0				

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 121.87 Tc(MIN.) = 12.923  
 EFFECTIVE AREA(ACRES) = 50.40 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 52.0  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 242.00 = 3151.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 242.00 TO NODE 242.00 IS CODE = 12

>>>>CLEAR MEMORY BANK # 1 <<<<<

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 242.00 TO NODE 243.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 647.31 DOWNSTREAM(FEET) = 642.64  
 FLOW LENGTH(FEET) = 934.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 51.0 INCH PIPE IS 40.3 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 10.13  
 ESTIMATED PIPE DIAMETER(INCH) = 51.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 121.87  
 PIPE TRAVEL TIME(MIN.) = 1.54 Tc(MIN.) = 14.46  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 243.00 = 4085.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 243.00 TO NODE 243.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 14.46  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.349  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 0.30 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.30 SUBAREA RUNOFF(CFS) = 0.62  
 EFFECTIVE AREA(ACRES) = 50.70 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 52.3 PEAK FLOW RATE(CFS) = 121.87  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 243.00 TO NODE 247.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 642.64 DOWNSTREAM(FEET) = 642.26  
 FLOW LENGTH(FEET) = 76.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 51.0 INCH PIPE IS 40.3 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 10.13  
 ESTIMATED PIPE DIAMETER(INCH) = 51.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 121.87  
 PIPE TRAVEL TIME(MIN.) = 0.13 Tc(MIN.) = 14.58  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 247.00 = 4161.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 247.00 TO NODE 247.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 14.58  
 RAINFALL INTENSITY(INCH/HR) = 2.34  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 50.70  
 TOTAL STREAM AREA(ACRES) = 52.30  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 121.87

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 245.00 TO NODE 246.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 575.00  
 ELEVATION DATA: UPSTREAM(FEET) = 660.40 DOWNSTREAM(FEET) = 655.10

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 9.859  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.955  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS Tc  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)  
 COMMERCIAL B 2.20 0.42 0.100 76 9.86  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 5.77  
 TOTAL AREA(ACRES) = 2.20 PEAK FLOW RATE(CFS) = 5.77

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 246.00 TO NODE 247.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 651.60 DOWNSTREAM(FEET) = 650.43  
 FLOW LENGTH(FEET) = 234.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 18.0 INCH PIPE IS 11.5 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 4.85  
 ESTIMATED PIPE DIAMETER(INCH) = 18.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 5.77  
 PIPE TRAVEL TIME(MIN.) = 0.80 Tc(MIN.) = 10.66  
 LONGEST FLOWPATH FROM NODE 245.00 TO NODE 247.00 = 809.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 247.00 TO NODE 247.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 10.66  
 RAINFALL INTENSITY(INCH/HR) = 2.82  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 2.20  
 TOTAL STREAM AREA(ACRES) = 2.20  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 5.77

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	117.01	11.00	2.767	0.36( 0.04)	0.10	40.3	235.00
1	121.87	14.58	2.336	0.36( 0.04)	0.10	50.7	200.00
1	121.56	14.75	2.321	0.36( 0.04)	0.10	51.0	206.00
1	111.88	17.10	2.123	0.36( 0.04)	0.10	52.3	220.00
2	5.77	10.66	2.820	0.42( 0.04)	0.10	2.2	245.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

PR100B.RES

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	121.33	10.66	2.820	0.36( 0.04)	0.10	41.2	245.00
2	122.67	11.00	2.767	0.36( 0.04)	0.10	42.5	235.00
3	126.63	14.58	2.336	0.36( 0.04)	0.10	52.9	200.00
4	126.29	14.75	2.321	0.36( 0.04)	0.10	53.2	206.00
5	116.20	17.10	2.123	0.36( 0.04)	0.10	54.5	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:  
 PEAK FLOW RATE(CFS) = 126.63 Tc(MIN.) = 14.58  
 EFFECTIVE AREA(ACRES) = 52.90 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 54.5  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 247.00 = 4161.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 247.00 TO NODE 247.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 14.58  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.336  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 0.60 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 0.60 SUBAREA RUNOFF(CFS) = 1.24  
 EFFECTIVE AREA(ACRES) = 53.50 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 55.1 PEAK FLOW RATE(CFS) = 126.63  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 247.00 TO NODE 248.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 642.26 DOWNSTREAM(FEET) = 641.82  
 FLOW LENGTH(FEET) = 88.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 54.0 INCH PIPE IS 38.7 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 10.39  
 ESTIMATED PIPE DIAMETER(INCH) = 54.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 126.63  
 PIPE TRAVEL TIME(MIN.) = 0.14 Tc(MIN.) = 14.73  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 248.00 = 4249.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 248.00 TO NODE 248.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 14.73  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.323  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 1.25 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.25 SUBAREA RUNOFF(CFS) = 2.57  
 EFFECTIVE AREA(ACRES) = 54.75 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 56.3 PEAK FLOW RATE(CFS) = 126.63  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 248.00 TO NODE 262.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 641.82 DOWNSTREAM(FEET) = 641.71  
 FLOW LENGTH(FEET) = 22.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 54.0 INCH PIPE IS 38.7 INCHES

PIPE-FLOW VELOCITY(FEET/SEC.) = 10.39  
ESTIMATED PIPE DIAMETER(INCH) = 54.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 126.63  
PIPE TRAVEL TIME(MIN.) = 0.04 Tc(MIN.) = 14.76  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 262.00 = 4271.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 262.00 TO NODE 262.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
TIME OF CONCENTRATION(MIN.) = 14.76  
RAINFALL INTENSITY(INCH/HR) = 2.32  
AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.36  
AREA-AVERAGED Ap = 0.10  
EFFECTIVE STREAM AREA(ACRES) = 54.75  
TOTAL STREAM AREA(ACRES) = 56.35  
PEAK FLOW RATE(CFS) AT CONFLUENCE = 126.63

\*\*\*\*\*  
FLOW PROCESS FROM NODE 250.00 TO NODE 251.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 350.00  
ELEVATION DATA: UPSTREAM(FEET) = 667.32 DOWNSTREAM(FEET) = 658.19

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 6.565  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.772  
SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)
COMMERCIAL	B	3.75	0.42	0.100	76	6.56

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA RUNOFF(CFS) = 12.59  
TOTAL AREA(ACRES) = 3.75 PEAK FLOW RATE(CFS) = 12.59

\*\*\*\*\*  
FLOW PROCESS FROM NODE 251.00 TO NODE 251.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 6.56  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.772  
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	1.55	0.42	0.100	76
COMMERCIAL	B	0.45	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 2.00 SUBAREA RUNOFF(CFS) = 6.71  
EFFECTIVE AREA(ACRES) = 5.75 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 5.8 PEAK FLOW RATE(CFS) = 19.30

\*\*\*\*\*  
FLOW PROCESS FROM NODE 251.00 TO NODE 252.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 654.19 DOWNSTREAM(FEET) = 653.50  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 27.0 INCH PIPE IS 18.8 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.51  
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 19.30  
PIPE TRAVEL TIME(MIN.) = 0.35 Tc(MIN.) = 6.92  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 252.00 = 488.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 252.00 TO NODE 252.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 6.92  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.655  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.50 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.50 SUBAREA RUNOFF(CFS) = 4.88  
EFFECTIVE AREA(ACRES) = 7.25 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 7.2 PEAK FLOW RATE(CFS) = 23.57

\*\*\*\*\*  
FLOW PROCESS FROM NODE 252.00 TO NODE 253.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

\*\*\*\*\*  
ELEVATION DATA: UPSTREAM(FEET) = 653.50 DOWNSTREAM(FEET) = 652.81  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 30.0 INCH PIPE IS 19.7 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.89  
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 23.57  
PIPE TRAVEL TIME(MIN.) = 0.33 Tc(MIN.) = 7.25  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 253.00 = 626.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 253.00 TO NODE 253.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 7.25  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.553  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.95 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.95 SUBAREA RUNOFF(CFS) = 6.16  
EFFECTIVE AREA(ACRES) = 9.20 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 9.2 PEAK FLOW RATE(CFS) = 29.07

\*\*\*\*\*  
FLOW PROCESS FROM NODE 253.00 TO NODE 254.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

\*\*\*\*\*  
ELEVATION DATA: UPSTREAM(FEET) = 652.81 DOWNSTREAM(FEET) = 652.12  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 30.0 INCH PIPE IS 23.3 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.10  
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 29.07  
PIPE TRAVEL TIME(MIN.) = 0.32 Tc(MIN.) = 7.58  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 254.00 = 764.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 254.00 TO NODE 254.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 7.58  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.461  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.50 0.42 0.100 76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.50 SUBAREA RUNOFF(CFS) = 4.62  
 EFFECTIVE AREA(ACRES) = 10.70 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 10.7 PEAK FLOW RATE(CFS) = 32.92

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 254.00 TO NODE 255.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 652.12 DOWNSTREAM(FEET) = 651.43  
 FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 33.0 INCH PIPE IS 23.0 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 7.44  
 ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 32.92  
 PIPE TRAVEL TIME(MIN.) = 0.31 Tc(MIN.) = 7.88  
 LONGEST FLOWPATH FROM NODE 250.00 TO NODE 255.00 = 902.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 255.00 TO NODE 255.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 7.88  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.379  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 1.95 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.95 SUBAREA RUNOFF(CFS) = 5.86  
 EFFECTIVE AREA(ACRES) = 12.65 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 12.6 PEAK FLOW RATE(CFS) = 37.99

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 255.00 TO NODE 256.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 651.43 DOWNSTREAM(FEET) = 650.74  
 FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 33.0 INCH PIPE IS 26.0 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 7.57  
 ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 37.99  
 PIPE TRAVEL TIME(MIN.) = 0.30 Tc(MIN.) = 8.19  
 LONGEST FLOWPATH FROM NODE 250.00 TO NODE 256.00 = 1040.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 256.00 TO NODE 256.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 8.19  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.303  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 1.45 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.45 SUBAREA RUNOFF(CFS) = 4.26  
 EFFECTIVE AREA(ACRES) = 14.10 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 14.1 PEAK FLOW RATE(CFS) = 41.38

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 256.00 TO NODE 257.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<

>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.74 DOWNSTREAM(FEET) = 650.05
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 36.0 INCH PIPE IS 25.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.88
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 41.38
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 8.48
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 257.00 = 1178.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 257.00 TO NODE 257.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 8.48
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.235
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 1.90 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 5.46
EFFECTIVE AREA(ACRES) = 16.00 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 16.0 PEAK FLOW RATE(CFS) = 45.97

\*\*\*\*\*
FLOW PROCESS FROM NODE 257.00 TO NODE 258.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.05 DOWNSTREAM(FEET) = 649.36
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 36.0 INCH PIPE IS 27.3 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.00
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 45.97
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 8.77
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 258.00 = 1316.00 FEET.

\*\*\*\*\*
FLOW PROCESS FROM NODE 258.00 TO NODE 258.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 8.77
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.171
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL B 1.45 0.42 0.100 76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.45 SUBAREA RUNOFF(CFS) = 4.08
EFFECTIVE AREA(ACRES) = 17.45 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 17.4 PEAK FLOW RATE(CFS) = 49.13

\*\*\*\*\*
FLOW PROCESS FROM NODE 258.00 TO NODE 259.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 649.36 DOWNSTREAM(FEET) = 648.67
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 36.0 INCH PIPE IS 29.1 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.04
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 49.13
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 9.05
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 259.00 = 1454.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 259.00 TO NODE 259.00 IS CODE = 81  
-----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 9.05  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.110  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.90 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.90 SUBAREA RUNOFF(CFS) = 5.25  
EFFECTIVE AREA(ACRES) = 19.35 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 19.3 PEAK FLOW RATE(CFS) = 53.43  
\*\*\*\*\*

\*\*\*\*\*  
FLOW PROCESS FROM NODE 259.00 TO NODE 260.00 IS CODE = 31  
-----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

\*\*\*\*\*  
ELEVATION DATA: UPSTREAM(FEET) = 648.67 DOWNSTREAM(FEET) = 647.98  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 39.0 INCH PIPE IS 28.0 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.37  
ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 53.43  
PIPE TRAVEL TIME(MIN.) = 0.27 Tc(MIN.) = 9.33  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 260.00 = 1592.00 FEET.  
\*\*\*\*\*

\*\*\*\*\*  
FLOW PROCESS FROM NODE 260.00 TO NODE 260.00 IS CODE = 81  
-----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 9.33  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.055  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.45 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.45 SUBAREA RUNOFF(CFS) = 3.93  
EFFECTIVE AREA(ACRES) = 20.80 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 20.8 PEAK FLOW RATE(CFS) = 56.40  
\*\*\*\*\*

\*\*\*\*\*  
FLOW PROCESS FROM NODE 260.00 TO NODE 261.00 IS CODE = 31  
-----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

\*\*\*\*\*  
ELEVATION DATA: UPSTREAM(FEET) = 647.98 DOWNSTREAM(FEET) = 647.29  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 39.0 INCH PIPE IS 29.3 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.43  
ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 56.40  
PIPE TRAVEL TIME(MIN.) = 0.27 Tc(MIN.) = 9.60  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 261.00 = 1730.00 FEET.  
\*\*\*\*\*

\*\*\*\*\*  
FLOW PROCESS FROM NODE 261.00 TO NODE 261.00 IS CODE = 81  
-----

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

\*\*\*\*\*  
MAINLINE Tc(MIN.) = 9.60  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.003  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 2.60 0.42 0.100 76  
\*\*\*\*\*  
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SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 2.60 SUBAREA RUNOFF(CFS) = 6.93  
EFFECTIVE AREA(ACRES) = 23.40 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 23.4 PEAK FLOW RATE(CFS) = 62.34

\*\*\*\*\*  
FLOW PROCESS FROM NODE 261.00 TO NODE 262.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 647.29 DOWNSTREAM(FEET) = 645.79  
FLOW LENGTH(FEET) = 300.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 42.0 INCH PIPE IS 29.2 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.73  
ESTIMATED PIPE DIAMETER(INCH) = 42.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 62.34  
PIPE TRAVEL TIME(MIN.) = 0.57 Tc(MIN.) = 10.17  
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 262.00 = 2030.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 262.00 TO NODE 262.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
TIME OF CONCENTRATION(MIN.) = 10.17  
RAINFALL INTENSITY(INCH/HR) = 2.90  
AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42  
AREA-AVERAGED Ap = 0.10  
EFFECTIVE STREAM AREA(ACRES) = 23.40  
TOTAL STREAM AREA(ACRES) = 23.40  
PEAK FLOW RATE(CFS) AT CONFLUENCE = 62.34

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	121.33	10.84	2.791	0.36( 0.04)	0.10	43.1	245.00
1	122.67	11.19	2.740	0.36( 0.04)	0.10	44.3	235.00
1	126.63	14.76	2.320	0.36( 0.04)	0.10	54.8	200.00
1	126.29	14.93	2.304	0.36( 0.04)	0.10	55.0	206.00
1	116.20	17.29	2.110	0.36( 0.04)	0.10	56.3	220.00
2	62.34	10.17	2.900	0.42( 0.04)	0.10	23.4	250.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	180.68	10.17	2.900	0.38( 0.04)	0.10	63.8	250.00
2	181.30	10.84	2.791	0.38( 0.04)	0.10	66.5	245.00
3	181.51	11.19	2.740	0.38( 0.04)	0.10	67.7	235.00
4	176.32	14.76	2.320	0.38( 0.04)	0.10	78.2	200.00
5	175.64	14.93	2.304	0.38( 0.04)	0.10	78.4	206.00
6	161.31	17.29	2.110	0.38( 0.04)	0.10	79.8	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:  
PEAK FLOW RATE(CFS) = 181.51 Tc(MIN.) = 11.19  
EFFECTIVE AREA(ACRES) = 67.74 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 79.8  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 262.00 = 4271.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 262.00 TO NODE 263.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 641.71 DOWNSTREAM(FEET) = 640.64  
FLOW LENGTH(FEET) = 214.00 MANNING'S N = 0.012

DEPTH OF FLOW IN 60.0 INCH PIPE IS 45.9 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 11.26  
ESTIMATED PIPE DIAMETER(INCH) = 60.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 181.51  
PIPE TRAVEL TIME(MIN.) = 0.32 Tc(MIN.) = 11.50  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 263.00 = 4485.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 263.00 TO NODE 263.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 11.50  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.694  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 0.55 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.55 SUBAREA RUNOFF(CFS) = 1.31  
EFFECTIVE AREA(ACRES) = 68.29 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 80.3 PEAK FLOW RATE(CFS) = 181.51  
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
FLOW PROCESS FROM NODE 263.00 TO NODE 263.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 11.50  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.694  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 0.20 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.20 SUBAREA RUNOFF(CFS) = 0.48  
EFFECTIVE AREA(ACRES) = 68.49 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 80.5 PEAK FLOW RATE(CFS) = 181.51  
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
FLOW PROCESS FROM NODE 263.00 TO NODE 264.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 640.64 DOWNSTREAM(FEET) = 638.74  
FLOW LENGTH(FEET) = 380.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 60.0 INCH PIPE IS 45.9 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 11.26  
ESTIMATED PIPE DIAMETER(INCH) = 60.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 181.51  
PIPE TRAVEL TIME(MIN.) = 0.56 Tc(MIN.) = 12.06  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 264.00 = 4865.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 264.00 TO NODE 264.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 12.06  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.618  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 0.95 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.95 SUBAREA RUNOFF(CFS) = 2.20  
EFFECTIVE AREA(ACRES) = 69.44 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 81.4 PEAK FLOW RATE(CFS) = 181.51

NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 264.00 TO NODE 264.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

=====

MAINLINE Tc(MIN.) = 12.06  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.618  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 1.00 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 1.00 SUBAREA RUNOFF(CFS) = 2.32  
 EFFECTIVE AREA(ACRES) = 70.44 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 82.4 PEAK FLOW RATE(CFS) = 181.51  
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 264.00 TO NODE 282.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM(FEET) = 638.74 DOWNSTREAM(FEET) = 637.24  
 FLOW LENGTH(FEET) = 300.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 60.0 INCH PIPE IS 45.9 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 11.26  
 ESTIMATED PIPE DIAMETER(INCH) = 60.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 181.51  
 PIPE TRAVEL TIME(MIN.) = 0.44 Tc(MIN.) = 12.51  
 LONGEST FLOWPATH FROM NODE 220.00 TO NODE 282.00 = 5165.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 282.00 TO NODE 282.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
 TIME OF CONCENTRATION(MIN.) = 12.51  
 RAINFALL INTENSITY(INCH/HR) = 2.56  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.38  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 70.44  
 TOTAL STREAM AREA(ACRES) = 82.45  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 181.51

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 270.00 TO NODE 271.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<  
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<

=====

INITIAL SUBAREA FLOW-LENGTH(FEET) = 450.00  
 ELEVATION DATA: UPSTREAM(FEET) = 667.30 DOWNSTREAM(FEET) = 658.19

Tc = K\*[(LENGTH\*\* 3.00)/(ELEVATION CHANGE)]\*\*0.20  
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 7.637  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.445  
 SUBAREA Tc AND LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS Tc  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN (MIN.)  
 COMMERCIAL B 3.90 0.42 0.100 76 7.64  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA RUNOFF(CFS) = 11.94  
 TOTAL AREA(ACRES) = 3.90 PEAK FLOW RATE(CFS) = 11.94

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 271.00 TO NODE 271.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

```

=====
MAINLINE Tc(MIN.) = 7.64
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.445
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B      1.60   0.42  0.100  76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.60   SUBAREA RUNOFF(CFS) = 4.90
EFFECTIVE AREA(ACRES) = 5.50  AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 5.5     PEAK FLOW RATE(CFS) = 16.84
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 271.00 TO NODE 272.00 IS CODE = 31

```

-----
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
```

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 654.19 DOWNSTREAM(FEET) = 653.50
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 24.0 INCH PIPE IS 19.6 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.13
ESTIMATED PIPE DIAMETER(INCH) = 24.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 16.84
PIPE TRAVEL TIME(MIN.) = 0.38 Tc(MIN.) = 8.01
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 272.00 = 588.00 FEET.
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 272.00 TO NODE 272.00 IS CODE = 81

```

-----
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
```

```

=====
MAINLINE Tc(MIN.) = 8.01
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.347
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B      1.55   0.42  0.100  76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.55   SUBAREA RUNOFF(CFS) = 4.61
EFFECTIVE AREA(ACRES) = 7.05  AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 7.1     PEAK FLOW RATE(CFS) = 20.97
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 272.00 TO NODE 273.00 IS CODE = 31

```

-----
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
```

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 653.50 DOWNSTREAM(FEET) = 652.81
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 27.0 INCH PIPE IS 20.1 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 6.59
ESTIMATED PIPE DIAMETER(INCH) = 27.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 20.97
PIPE TRAVEL TIME(MIN.) = 0.35 Tc(MIN.) = 8.36
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 273.00 = 726.00 FEET.
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 273.00 TO NODE 273.00 IS CODE = 81

```

-----
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
```

```

=====
MAINLINE Tc(MIN.) = 8.36
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.262
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp   Ap   SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B      1.95   0.42  0.100  76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.95   SUBAREA RUNOFF(CFS) = 5.65
EFFECTIVE AREA(ACRES) = 9.00  AREA-AVERAGED Fm(INCH/HR) = 0.04
    
```

AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 9.0 PEAK FLOW RATE(CFS) = 26.08

\*\*\*\*\*  
FLOW PROCESS FROM NODE 273.00 TO NODE 274.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 652.81 DOWNSTREAM(FEET) = 652.12  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 30.0 INCH PIPE IS 21.3 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.01  
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 26.08  
PIPE TRAVEL TIME(MIN.) = 0.33 Tc(MIN.) = 8.69  
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 274.00 = 864.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 274.00 TO NODE 274.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 8.69  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.188  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.50 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.50 SUBAREA RUNOFF(CFS) = 4.25  
EFFECTIVE AREA(ACRES) = 10.50 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 10.5 PEAK FLOW RATE(CFS) = 29.73

\*\*\*\*\*  
FLOW PROCESS FROM NODE 274.00 TO NODE 275.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 652.12 DOWNSTREAM(FEET) = 651.43  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 30.0 INCH PIPE IS 23.8 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.11  
ESTIMATED PIPE DIAMETER(INCH) = 30.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 29.73  
PIPE TRAVEL TIME(MIN.) = 0.32 Tc(MIN.) = 9.01  
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 275.00 = 1002.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 275.00 TO NODE 275.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 9.01  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.119  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.95 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.95 SUBAREA RUNOFF(CFS) = 5.40  
EFFECTIVE AREA(ACRES) = 12.45 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 12.4 PEAK FLOW RATE(CFS) = 34.47

\*\*\*\*\*  
FLOW PROCESS FROM NODE 275.00 TO NODE 276.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 651.43 DOWNSTREAM(FEET) = 650.74  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012

DEPTH OF FLOW IN 33.0 INCH PIPE IS 23.9 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.50  
ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 34.47  
PIPE TRAVEL TIME(MIN.) = 0.31 Tc(MIN.) = 9.32  
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 276.00 = 1140.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 276.00 TO NODE 276.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 9.32  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.057  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.50 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.50 SUBAREA RUNOFF(CFS) = 4.07  
EFFECTIVE AREA(ACRES) = 13.95 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 13.9 PEAK FLOW RATE(CFS) = 37.85

\*\*\*\*\*  
FLOW PROCESS FROM NODE 276.00 TO NODE 277.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.74 DOWNSTREAM(FEET) = 650.05  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 33.0 INCH PIPE IS 25.9 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.57  
ESTIMATED PIPE DIAMETER(INCH) = 33.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 37.85  
PIPE TRAVEL TIME(MIN.) = 0.30 Tc(MIN.) = 9.62  
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 277.00 = 1278.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 277.00 TO NODE 277.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 9.62  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.999  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
COMMERCIAL B 1.95 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 1.95 SUBAREA RUNOFF(CFS) = 5.19  
EFFECTIVE AREA(ACRES) = 15.90 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 15.9 PEAK FLOW RATE(CFS) = 42.30

\*\*\*\*\*  
FLOW PROCESS FROM NODE 277.00 TO NODE 278.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<

ELEVATION DATA: UPSTREAM(FEET) = 650.05 DOWNSTREAM(FEET) = 649.36  
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
DEPTH OF FLOW IN 36.0 INCH PIPE IS 25.5 INCHES  
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.91  
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1  
PIPE-FLOW(CFS) = 42.30  
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 9.91  
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 278.00 = 1416.00 FEET.

\*\*\*\*\*  
FLOW PROCESS FROM NODE 278.00 TO NODE 278.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

```

=====
MAINLINE Tc(MIN.) = 9.91
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.945
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp       Ap       SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B         1.50   0.42    0.100   76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.50   SUBAREA RUNOFF(CFS) = 3.92
EFFECTIVE AREA(ACRES) = 17.40  AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42  AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 17.4   PEAK FLOW RATE(CFS) = 45.46
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 278.00 TO NODE 279.00 IS CODE = 31

```

=====
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
```

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 649.36 DOWNSTREAM(FEET) = 648.67
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 36.0 INCH PIPE IS 27.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 7.99
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 45.46
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 10.20
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 279.00 = 1554.00 FEET.
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 279.00 TO NODE 279.00 IS CODE = 81

```

=====
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
```

```

=====
MAINLINE Tc(MIN.) = 10.20
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.895
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp       Ap       SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B         1.95   0.42    0.100   76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.95   SUBAREA RUNOFF(CFS) = 5.01
EFFECTIVE AREA(ACRES) = 19.35  AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42  AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 19.4   PEAK FLOW RATE(CFS) = 49.69
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 279.00 TO NODE 280.00 IS CODE = 31

```

=====
>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
    
```

```

=====
ELEVATION DATA: UPSTREAM(FEET) = 648.67 DOWNSTREAM(FEET) = 647.98
FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 36.0 INCH PIPE IS 29.4 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.04
ESTIMATED PIPE DIAMETER(INCH) = 36.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 49.69
PIPE TRAVEL TIME(MIN.) = 0.29 Tc(MIN.) = 10.49
LONGEST FLOWPATH FROM NODE 270.00 TO NODE 280.00 = 1692.00 FEET.
    
```

\*\*\*\*\*  
FLOW PROCESS FROM NODE 280.00 TO NODE 280.00 IS CODE = 81

```

=====
>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
    
```

```

=====
MAINLINE Tc(MIN.) = 10.49
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.848
SUBAREA LOSS RATE DATA(AMC III):
DEVELOPMENT TYPE/   SCS SOIL   AREA   Fp       Ap       SCS
  LAND USE          GROUP (ACRES) (INCH/HR) (DECIMAL) CN
COMMERCIAL          B         1.45   0.42    0.100   76
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.45   SUBAREA RUNOFF(CFS) = 3.66
EFFECTIVE AREA(ACRES) = 20.80  AREA-AVERAGED Fm(INCH/HR) = 0.04
    
```

AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 20.8 PEAK FLOW RATE(CFS) = 52.52

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 280.00 TO NODE 281.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 647.98 DOWNSTREAM(FEET) = 647.29  
 FLOW LENGTH(FEET) = 138.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 39.0 INCH PIPE IS 27.7 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 8.35  
 ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 52.52  
 PIPE TRAVEL TIME(MIN.) = 0.28 Tc(MIN.) = 10.76  
 LONGEST FLOWPATH FROM NODE 270.00 TO NODE 281.00 = 1830.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 281.00 TO NODE 281.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<

MAINLINE Tc(MIN.) = 10.76  
 \* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.804  
 SUBAREA LOSS RATE DATA(AMC III):  
 DEVELOPMENT TYPE/ SCS SOIL AREA Fp Ap SCS  
 LAND USE GROUP (ACRES) (INCH/HR) (DECIMAL) CN  
 COMMERCIAL B 2.55 0.42 0.100 76  
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
 SUBAREA AREA(ACRES) = 2.55 SUBAREA RUNOFF(CFS) = 6.34  
 EFFECTIVE AREA(ACRES) = 23.35 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10  
 TOTAL AREA(ACRES) = 23.4 PEAK FLOW RATE(CFS) = 58.03

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 281.00 TO NODE 282.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM(FEET) = 647.29 DOWNSTREAM(FEET) = 645.60  
 FLOW LENGTH(FEET) = 338.00 MANNING'S N = 0.012  
 DEPTH OF FLOW IN 39.0 INCH PIPE IS 30.1 INCHES  
 PIPE-FLOW VELOCITY(FEET/SEC.) = 8.45  
 ESTIMATED PIPE DIAMETER(INCH) = 39.00 NUMBER OF PIPES = 1  
 PIPE-FLOW(CFS) = 58.03  
 PIPE TRAVEL TIME(MIN.) = 0.67 Tc(MIN.) = 11.43  
 LONGEST FLOWPATH FROM NODE 270.00 TO NODE 282.00 = 2168.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 282.00 TO NODE 282.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION(MIN.) = 11.43  
 RAINFALL INTENSITY(INCH/HR) = 2.70  
 AREA-AVERAGED Fm(INCH/HR) = 0.04  
 AREA-AVERAGED Fp(INCH/HR) = 0.42  
 AREA-AVERAGED Ap = 0.10  
 EFFECTIVE STREAM AREA(ACRES) = 23.35  
 TOTAL STREAM AREA(ACRES) = 23.35  
 PEAK FLOW RATE(CFS) AT CONFLUENCE = 58.03

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	180.68	11.50	2.695	0.39( 0.04)	0.10	66.5	250.00
1	181.30	12.17	2.605	0.38( 0.04)	0.10	69.2	245.00
1	181.51	12.51	2.562	0.38( 0.04)	0.10	70.4	235.00
1	176.32	16.09	2.203	0.38( 0.04)	0.10	80.9	200.00
1	175.64	16.26	2.189	0.38( 0.04)	0.10	81.1	206.00
1	161.31	18.65	2.016	0.38( 0.04)	0.10	82.4	220.00



2 58.03 11.43 2.704 0.42( 0.04) 0.10 23.4 270.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	238.29	11.43	2.704	0.40( 0.04)	0.10	89.5	270.00
2	238.50	11.50	2.695	0.40( 0.04)	0.10	89.9	250.00
3	237.16	12.17	2.605	0.39( 0.04)	0.10	92.5	245.00
4	236.43	12.51	2.562	0.39( 0.04)	0.10	93.8	235.00
5	223.41	16.09	2.203	0.39( 0.04)	0.10	104.2	200.00
6	222.43	16.26	2.189	0.39( 0.04)	0.10	104.5	206.00
7	204.33	18.65	2.016	0.39( 0.04)	0.10	105.8	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE(CFS) = 238.50 Tc(MIN.) = 11.50  
EFFECTIVE AREA(ACRES) = 89.87 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 105.8  
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 282.00 = 5165.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 282.00 TO NODE 282.00 IS CODE = 81

>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<

MAINLINE Tc(MIN.) = 11.50  
\* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.695  
SUBAREA LOSS RATE DATA(AMC III):  
DEVELOPMENT TYPE/ LAND USE SCS SOIL GROUP AREA (ACRES) Fp (INCH/HR) Ap (DECIMAL) SCS CN  
COMMERCIAL B 0.65 0.42 0.100 76  
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42  
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100  
SUBAREA AREA(ACRES) = 0.65 SUBAREA RUNOFF(CFS) = 1.55  
EFFECTIVE AREA(ACRES) = 90.52 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.10  
TOTAL AREA(ACRES) = 106.4 PEAK FLOW RATE(CFS) = 238.50  
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

END OF STUDY SUMMARY:

TOTAL AREA(ACRES) = 106.4 TC(MIN.) = 11.50  
EFFECTIVE AREA(ACRES) = 90.52 AREA-AVERAGED Fm(INCH/HR) = 0.04  
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.100  
PEAK FLOW RATE(CFS) = 238.50

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	238.29	11.43	2.704	0.40( 0.04)	0.10	90.1	270.00
2	238.50	11.50	2.695	0.40( 0.04)	0.10	90.5	250.00
3	237.16	12.17	2.605	0.39( 0.04)	0.10	93.2	245.00
4	236.43	12.51	2.562	0.39( 0.04)	0.10	94.4	235.00
5	223.41	16.09	2.203	0.39( 0.04)	0.10	104.9	200.00
6	222.43	16.26	2.189	0.39( 0.04)	0.10	105.1	206.00
7	204.33	18.65	2.016	0.39( 0.04)	0.10	106.4	220.00

END OF RATIONAL METHOD ANALYSIS

▲

# **APPENDIX C**

## **DETENTION CALCULATIONS**

Job #3654 Grove Business Center, Ontario  
 Volume in Building 1 West Truck Yard, Node 281

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
658.19	0.00	0	1648	1648	0.04	2.9
658.40	0.21	15700	8094	9743	0.22	3.1
658.60	0.41	65240	18965	28708	0.66	3.3
658.80	0.61	124410	27814	56522	1.30	3.5
659.00	0.81	153730	33064	89586	2.06	3.7
659.20	1.01	176910	37513	127099	2.92	3.9
659.40	1.21	198220	41733	168832	3.88	4.1
659.60	1.41	219110	45977	214809	4.93	4.3
659.80	1.61	240660	50357	265166	6.09	4.4
660.00	1.81	262910	32359	297524	6.83	4.5
660.12	1.93	276400				

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
 USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* 100-YEAR DETENTION \*  
 \* BUILDING 1 WEST TRUCK YARD, NODE 281 \*  
 \*\*\*\*\*

FILE NAME: W:\3654\BLDG1W.DAT  
 TIME/DATE OF STUDY: 22:58 12/12/2020

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 281.00 TO NODE 281.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 23.350 ACRES  
 BASEFLOW = 0.000 CFS/SQUARE-MILE  
 \*USER ENTERED "LAG" TIME = 0.144 HOURS  
 CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.  
 THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)  
 MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.  
 VALLEY(DEVELOPED) S-GRAPH SELECTED  
 MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 \*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL(INCH)= 0.37  
 SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)= 0.75  
 SPECIFIED PEAK 1-HOUR RAINFALL(INCH) = 1.00  
 SPECIFIED PEAK 3-HOUR RAINFALL(INCH) = 1.90  
 SPECIFIED PEAK 6-HOUR RAINFALL(INCH) = 2.90  
 SPECIFIED PEAK 24-HOUR RAINFALL(INCH) = 5.90

PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
 5-MINUTE FACTOR = 0.999  
 30-MINUTE FACTOR = 0.999  
 1-HOUR FACTOR = 0.999  
 3-HOUR FACTOR = 1.000  
 6-HOUR FACTOR = 1.000  
 24-HOUR FACTOR = 1.000

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
 UNIT INTERVAL PERCENTAGE OF LAG-TIME = 57.870

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES(CFS)
1	5.965	16.843
2	38.706	92.457
3	78.993	113.768
4	94.676	44.285
5	98.470	10.715
6	99.400	2.626

BLDG1W.RES

7	99.760	1.017
8	99.940	0.508
9	100.000	0.169

\*\*\*\*\*

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118

BLDG1W.RES

67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187

## BLDG1W.RES

144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0251
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0311	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0369	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0587	0.0035	0.0552
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179

BLDG1W.RES

221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90  
 TOTAL SOIL-LOSS(INCHES) = 0.43  
 TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

-----  
 TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.8306  
 TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 10.6437  
 -----



2 4 - H O U R   S T O R M  
R U N O F F   H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	15.0	30.0	45.0	60.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0084	1.06	Q	.	.	.	.
0.250	0.0233	2.16	VQ	.	.	.	.
0.333	0.0412	2.59	VQ	.	.	.	.
0.417	0.0598	2.70	VQ	.	.	.	.
0.500	0.0786	2.74	VQ	.	.	.	.
0.583	0.0976	2.75	VQ	.	.	.	.
0.667	0.1166	2.77	VQ	.	.	.	.
0.750	0.1357	2.77	VQ	.	.	.	.
0.833	0.1549	2.78	VQ	.	.	.	.
0.917	0.1741	2.79	VQ	.	.	.	.
1.000	0.1934	2.80	VQ	.	.	.	.
1.083	0.2127	2.80	VQ	.	.	.	.
1.167	0.2321	2.81	VQ	.	.	.	.
1.250	0.2515	2.82	VQ	.	.	.	.
1.333	0.2709	2.83	.Q	.	.	.	.
1.417	0.2905	2.83	.Q	.	.	.	.
1.500	0.3101	2.84	.Q	.	.	.	.
1.583	0.3297	2.85	.Q	.	.	.	.
1.667	0.3494	2.86	.Q	.	.	.	.
1.750	0.3691	2.87	.Q	.	.	.	.
1.833	0.3889	2.87	.Q	.	.	.	.
1.917	0.4088	2.88	.Q	.	.	.	.
2.000	0.4287	2.89	.Q	.	.	.	.
2.083	0.4486	2.90	.Q	.	.	.	.
2.167	0.4687	2.91	.Q	.	.	.	.
2.250	0.4888	2.92	.Q	.	.	.	.
2.333	0.5089	2.92	.Q	.	.	.	.
2.417	0.5291	2.93	.Q	.	.	.	.
2.500	0.5494	2.94	.QV	.	.	.	.
2.583	0.5697	2.95	.QV	.	.	.	.
2.667	0.5901	2.96	.QV	.	.	.	.
2.750	0.6105	2.97	.QV	.	.	.	.
2.833	0.6310	2.98	.QV	.	.	.	.
2.917	0.6516	2.99	.QV	.	.	.	.
3.000	0.6722	3.00	.QV	.	.	.	.
3.083	0.6929	3.01	.Q	.	.	.	.
3.167	0.7137	3.01	.Q	.	.	.	.
3.250	0.7345	3.02	.Q	.	.	.	.
3.333	0.7554	3.03	.Q	.	.	.	.
3.417	0.7763	3.04	.Q	.	.	.	.
3.500	0.7974	3.05	.Q	.	.	.	.
3.583	0.8185	3.06	.QV	.	.	.	.
3.667	0.8396	3.07	.QV	.	.	.	.
3.750	0.8608	3.08	.QV	.	.	.	.
3.833	0.8821	3.09	.QV	.	.	.	.
3.917	0.9035	3.10	.QV	.	.	.	.
4.000	0.9249	3.11	.QV	.	.	.	.
4.083	0.9465	3.12	.QV	.	.	.	.
4.167	0.9680	3.13	.QV	.	.	.	.
4.250	0.9897	3.14	.QV	.	.	.	.
4.333	1.0114	3.16	.QV	.	.	.	.
4.417	1.0332	3.17	.QV	.	.	.	.
4.500	1.0551	3.18	.QV	.	.	.	.
4.583	1.0771	3.19	.Q V	.	.	.	.
4.667	1.0991	3.20	.Q V	.	.	.	.
4.750	1.1212	3.21	.Q V	.	.	.	.
4.833	1.1434	3.22	.Q V	.	.	.	.
4.917	1.1657	3.23	.Q V	.	.	.	.
5.000	1.1880	3.25	.Q V	.	.	.	.
5.083	1.2104	3.26	.Q V	.	.	.	.
5.167	1.2330	3.27	.Q V	.	.	.	.
5.250	1.2556	3.28	.Q V	.	.	.	.
5.333	1.2782	3.29	.Q V	.	.	.	.
5.417	1.3010	3.31	.Q V	.	.	.	.

BLDG1W.RES

5.500	1.3239	3.32	. Q V	.	.	.	.
5.583	1.3468	3.33	. Q V	.	.	.	.
5.667	1.3698	3.34	. Q V	.	.	.	.
5.750	1.3929	3.36	. Q V	.	.	.	.
5.833	1.4161	3.37	. Q V	.	.	.	.
5.917	1.4394	3.38	. Q V	.	.	.	.
6.000	1.4628	3.40	. Q V	.	.	.	.
6.083	1.4863	3.41	. Q V	.	.	.	.
6.167	1.5099	3.42	. Q V	.	.	.	.
6.250	1.5336	3.44	. Q V	.	.	.	.
6.333	1.5573	3.45	. Q V	.	.	.	.
6.417	1.5812	3.47	. Q V	.	.	.	.
6.500	1.6052	3.48	. Q V	.	.	.	.
6.583	1.6292	3.49	. Q V	.	.	.	.
6.667	1.6534	3.51	. Q V	.	.	.	.
6.750	1.6777	3.52	. Q V	.	.	.	.
6.833	1.7021	3.54	. Q V	.	.	.	.
6.917	1.7266	3.56	. Q V	.	.	.	.
7.000	1.7512	3.57	. Q V	.	.	.	.
7.083	1.7759	3.59	. Q V	.	.	.	.
7.167	1.8007	3.60	. Q V	.	.	.	.
7.250	1.8256	3.62	. Q V	.	.	.	.
7.333	1.8506	3.64	. Q V	.	.	.	.
7.417	1.8758	3.65	. Q V	.	.	.	.
7.500	1.9011	3.67	. Q V	.	.	.	.
7.583	1.9265	3.69	. Q V	.	.	.	.
7.667	1.9520	3.70	. Q V	.	.	.	.
7.750	1.9776	3.72	. Q V	.	.	.	.
7.833	2.0034	3.74	. Q V	.	.	.	.
7.917	2.0292	3.76	. Q V	.	.	.	.
8.000	2.0552	3.78	. Q V	.	.	.	.
8.083	2.0814	3.80	. Q V	.	.	.	.
8.167	2.1077	3.81	. Q V	.	.	.	.
8.250	2.1341	3.83	. Q V	.	.	.	.
8.333	2.1606	3.85	. Q V	.	.	.	.
8.417	2.1873	3.87	. Q V	.	.	.	.
8.500	2.2141	3.89	. Q V	.	.	.	.
8.583	2.2411	3.91	. Q V	.	.	.	.
8.667	2.2682	3.94	. Q V	.	.	.	.
8.750	2.2954	3.96	. Q V	.	.	.	.
8.833	2.3228	3.98	. Q V	.	.	.	.
8.917	2.3504	4.00	. Q V	.	.	.	.
9.000	2.3781	4.02	. Q V	.	.	.	.
9.083	2.4059	4.05	. Q V	.	.	.	.
9.167	2.4340	4.07	. Q V	.	.	.	.
9.250	2.4622	4.09	. Q V	.	.	.	.
9.333	2.4905	4.12	. Q V	.	.	.	.
9.417	2.5190	4.14	. Q V	.	.	.	.
9.500	2.5477	4.17	. Q V	.	.	.	.
9.583	2.5766	4.19	. Q V	.	.	.	.
9.667	2.6057	4.22	. Q V	.	.	.	.
9.750	2.6349	4.24	. Q V	.	.	.	.
9.833	2.6643	4.27	. Q V	.	.	.	.
9.917	2.6939	4.30	. Q V	.	.	.	.
10.000	2.7237	4.33	. Q V	.	.	.	.
10.083	2.7537	4.36	. Q V	.	.	.	.
10.167	2.7839	4.38	. Q V	.	.	.	.
10.250	2.8143	4.41	. Q V	.	.	.	.
10.333	2.8449	4.44	. Q V	.	.	.	.
10.417	2.8757	4.48	. Q V	.	.	.	.
10.500	2.9068	4.51	. Q V	.	.	.	.
10.583	2.9380	4.54	. Q .V	.	.	.	.
10.667	2.9695	4.57	. Q .V	.	.	.	.
10.750	3.0012	4.61	. Q .V	.	.	.	.
10.833	3.0332	4.64	. Q .V	.	.	.	.
10.917	3.0654	4.68	. Q .V	.	.	.	.
11.000	3.0979	4.71	. Q .V	.	.	.	.
11.083	3.1306	4.75	. Q .V	.	.	.	.
11.167	3.1636	4.79	. Q .V	.	.	.	.
11.250	3.1968	4.83	. Q .V	.	.	.	.
11.333	3.2303	4.87	. Q .V	.	.	.	.
11.417	3.2641	4.91	. Q .V	.	.	.	.
11.500	3.2982	4.95	. Q .V	.	.	.	.
11.583	3.3326	4.99	. Q .V	.	.	.	.
11.667	3.3673	5.04	. Q .V	.	.	.	.
11.750	3.4023	5.08	. Q .V	.	.	.	.
11.833	3.4376	5.13	. Q .V	.	.	.	.

BLDG1W.RES

11.917	3.4733	5.18	Q	V						
12.000	3.5093	5.23	Q	V						
12.083	3.5460	5.34	Q	V						
12.167	3.5855	5.73	Q	V						
12.250	3.6281	6.19	Q	V						
12.333	3.6723	6.41	Q	V						
12.417	3.7171	6.50	Q	V						
12.500	3.7623	6.57	Q	V						
12.583	3.8079	6.63	Q	V						
12.667	3.8540	6.69	Q	V						
12.750	3.9005	6.75	Q	V						
12.833	3.9475	6.82	Q	V						
12.917	3.9949	6.89	Q	V						
13.000	4.0428	6.95	Q	V						
13.083	4.0912	7.03	Q	V						
13.167	4.1401	7.10	Q	V						
13.250	4.1895	7.18	Q	V						
13.333	4.2395	7.26	Q	V						
13.417	4.2901	7.34	Q	V						
13.500	4.3412	7.43	Q	V						
13.583	4.3930	7.52	Q	V						
13.667	4.4454	7.61	Q	V						
13.750	4.4985	7.71	Q	V						
13.833	4.5524	7.82	Q	V						
13.917	4.6069	7.92	Q	V						
14.000	4.6623	8.04	Q	V						
14.083	4.7184	8.14	Q	V						
14.167	4.7745	8.16	Q	V						
14.250	4.8307	8.15	Q	V						
14.333	4.8875	8.24	Q	V						
14.417	4.9452	8.39	Q	V						
14.500	5.0041	8.55	Q	V						
14.583	5.0642	8.73	Q	V						
14.667	5.1256	8.92	Q	V						
14.750	5.1885	9.13	Q	V						
14.833	5.2529	9.35	Q	V						
14.917	5.3190	9.59	Q	V						
15.000	5.3869	9.86	Q	V						
15.083	5.4568	10.16	Q	V						
15.167	5.5291	10.49	Q	V						
15.250	5.6038	10.85	Q	V						
15.333	5.6815	11.28	Q	V						
15.417	5.7610	11.55	Q	V						
15.500	5.8361	10.90	Q	V						
15.583	5.9054	10.06	Q	V						
15.667	5.9763	10.31	Q	V						
15.750	6.0534	11.19	Q	V						
15.833	6.1391	12.45	Q	V						
15.917	6.2384	14.41	Q	V						
16.000	6.3651	18.40	Q	V						
16.083	6.5642	28.91	Q	V						
16.167	6.9233	52.13	Q	V						
16.250	7.2987	54.51	Q	V						
16.333	7.5052	29.98	Q	V						
16.417	7.6192	16.57	Q	V						
16.500	7.7073	12.79	Q	V						
16.583	7.7909	12.13	Q	V						
16.667	7.8694	11.40	Q	V						
16.750	7.9423	10.58	Q	V						
16.833	8.0105	9.91	Q	V						
16.917	8.0752	9.39	Q	V						
17.000	8.1368	8.95	Q	V						
17.083	8.1960	8.59	Q	V						
17.167	8.2537	8.38	Q	V						
17.250	8.3104	8.23	Q	V						
17.333	8.3658	8.04	Q	V						
17.417	8.4196	7.82	Q	V						
17.500	8.4721	7.62	Q	V						
17.583	8.5233	7.43	Q	V						
17.667	8.5733	7.26	Q	V						
17.750	8.6223	7.11	Q	V						
17.833	8.6702	6.96	Q	V						
17.917	8.7172	6.82	Q	V						
18.000	8.7633	6.70	Q	V						
18.083	8.8082	6.52	Q	V						
18.167	8.8500	6.07	Q	V						
18.250	8.8882	5.55	Q	V						

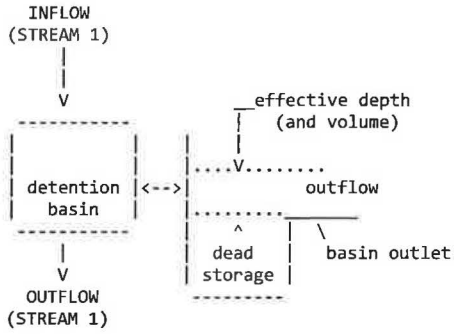
BLDG1W.RES

18.333	8.9246	5.29	. Q	.	.	.	V	.
18.417	8.9601	5.15	. Q	.	.	.	V	.
18.500	8.9948	5.05	. Q	.	.	.	V	.
18.583	9.0290	4.96	. Q	.	.	.	V	.
18.667	9.0625	4.87	. Q	.	.	.	V	.
18.750	9.0955	4.79	. Q	.	.	.	V	.
18.833	9.1280	4.71	. Q	.	.	.	V	.
18.917	9.1599	4.64	. Q	.	.	.	V	.
19.000	9.1915	4.57	. Q	.	.	.	V	.
19.083	9.2225	4.51	. Q	.	.	.	V	.
19.167	9.2531	4.45	. Q	.	.	.	V	.
19.250	9.2833	4.39	. Q	.	.	.	V	.
19.333	9.3131	4.33	. Q	.	.	.	V	.
19.417	9.3426	4.27	. Q	.	.	.	V	.
19.500	9.3716	4.22	. Q	.	.	.	V	.
19.583	9.4003	4.17	. Q	.	.	.	V	.
19.667	9.4287	4.12	. Q	.	.	.	V	.
19.750	9.4567	4.07	. Q	.	.	.	V	.
19.833	9.4844	4.02	. Q	.	.	.	V	.
19.917	9.5119	3.98	. Q	.	.	.	V	.
20.000	9.5390	3.94	. Q	.	.	.	V	.
20.083	9.5658	3.90	. Q	.	.	.	V	.
20.167	9.5923	3.85	. Q	.	.	.	V	.
20.250	9.6186	3.82	. Q	.	.	.	V	.
20.333	9.6446	3.78	. Q	.	.	.	V	.
20.417	9.6704	3.74	. Q	.	.	.	V	.
20.500	9.6959	3.71	. Q	.	.	.	V	.
20.583	9.7212	3.67	. Q	.	.	.	V	.
20.667	9.7462	3.64	. Q	.	.	.	V	.
20.750	9.7711	3.60	. Q	.	.	.	V	.
20.833	9.7957	3.57	. Q	.	.	.	V	.
20.917	9.8200	3.54	. Q	.	.	.	V	.
21.000	9.8442	3.51	. Q	.	.	.	V	.
21.083	9.8682	3.48	. Q	.	.	.	V	.
21.167	9.8920	3.45	. Q	.	.	.	V	.
21.250	9.9155	3.42	. Q	.	.	.	V	.
21.333	9.9389	3.40	. Q	.	.	.	V	.
21.417	9.9621	3.37	. Q	.	.	.	V	.
21.500	9.9852	3.34	. Q	.	.	.	V	.
21.583	10.0080	3.32	. Q	.	.	.	V	.
21.667	10.0307	3.29	. Q	.	.	.	V	.
21.750	10.0532	3.27	. Q	.	.	.	V	.
21.833	10.0756	3.25	. Q	.	.	.	V	.
21.917	10.0978	3.22	. Q	.	.	.	V	.
22.000	10.1198	3.20	. Q	.	.	.	V	.
22.083	10.1417	3.18	. Q	.	.	.	V	.
22.167	10.1634	3.16	. Q	.	.	.	V	.
22.250	10.1850	3.13	. Q	.	.	.	V	.
22.333	10.2065	3.11	. Q	.	.	.	V	.
22.417	10.2278	3.09	. Q	.	.	.	V	.
22.500	10.2489	3.07	. Q	.	.	.	V	.
22.583	10.2699	3.05	. Q	.	.	.	V	.
22.667	10.2908	3.03	. Q	.	.	.	V	.
22.750	10.3116	3.01	. Q	.	.	.	V	.
22.833	10.3322	3.00	.Q	.	.	.	V	.
22.917	10.3527	2.98	.Q	.	.	.	V	.
23.000	10.3731	2.96	.Q	.	.	.	V	.
23.083	10.3934	2.94	.Q	.	.	.	V	.
23.167	10.4135	2.92	.Q	.	.	.	V	.
23.250	10.4336	2.91	.Q	.	.	.	V	.
23.333	10.4535	2.89	.Q	.	.	.	V	.
23.417	10.4733	2.87	.Q	.	.	.	V	.
23.500	10.4930	2.86	.Q	.	.	.	V	.
23.583	10.5125	2.84	.Q	.	.	.	V	.
23.667	10.5320	2.83	.Q	.	.	.	V	.
23.750	10.5514	2.81	.Q	.	.	.	V	.
23.833	10.5706	2.80	.Q	.	.	.	V	.
23.917	10.5898	2.78	.Q	.	.	.	V	.
24.000	10.6089	2.77	.Q	.	.	.	V	.
24.083	10.6267	2.59	.Q	.	.	.	V	.
24.167	10.6383	1.68	.Q	.	.	.	V	.
24.250	10.6423	0.58	Q	.	.	.	V	.
24.333	10.6433	0.15	Q	.	.	.	V	.
24.417	10.6436	0.04	Q	.	.	.	V	.
24.500	10.6437	0.02	Q	.	.	.	V	.
24.583	10.6437	0.01	Q	.	.	.	V	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	370.0
20%	70.0
30%	30.0
40%	20.0
50%	20.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 281.00 TO NODE 281.00 IS CODE = 3.1  
 <----->  
 >>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<<  
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ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1  
 THROUGH A FLOW-THROUGH DETENTION BASIN  
 SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 DEAD STORAGE(AF) = 0.000  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.000  
 SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000  
 DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.21	2.90	0.040
3	0.41	3.10	0.220
4	0.61	3.30	0.660
5	0.81	3.50	1.300
6	1.01	3.70	2.060
7	1.21	3.90	2.920
8	1.41	4.10	3.880
9	1.61	4.30	4.930
10	1.81	4.40	6.090
11	1.93	4.50	6.830

\*\*\*\*\*  
 MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):  
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;  
 MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	MEAN EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
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BLDG1W.RES

0.083	0.000	0.16	0.00	0.00	0.0	0.001
0.167	0.000	1.06	0.00	0.03	0.3	0.006
0.250	0.000	2.16	0.00	0.08	0.8	0.016
0.333	0.000	2.59	0.00	0.12	1.4	0.024
0.417	0.000	2.70	0.00	0.15	1.9	0.029
0.500	0.000	2.74	0.00	0.17	2.2	0.033
0.583	0.000	2.75	0.00	0.18	2.4	0.035
0.667	0.000	2.77	0.00	0.19	2.6	0.036
0.750	0.000	2.77	0.00	0.19	2.6	0.037
0.833	0.000	2.78	0.00	0.20	2.7	0.038
0.917	0.000	2.79	0.00	0.20	2.7	0.038
1.000	0.000	2.80	0.00	0.20	2.8	0.038
1.083	0.000	2.80	0.00	0.20	2.8	0.038
1.167	0.000	2.81	0.00	0.20	2.8	0.039
1.250	0.000	2.82	0.00	0.20	2.8	0.039
1.333	0.000	2.83	0.00	0.20	2.8	0.039
1.417	0.000	2.83	0.00	0.20	2.8	0.039
1.500	0.000	2.84	0.00	0.20	2.8	0.039
1.583	0.000	2.85	0.00	0.21	2.8	0.039
1.667	0.000	2.86	0.00	0.21	2.8	0.039
1.750	0.000	2.87	0.00	0.21	2.9	0.039
1.833	0.000	2.87	0.00	0.21	2.9	0.039
1.917	0.000	2.88	0.00	0.21	2.9	0.040
2.000	0.000	2.89	0.00	0.21	2.9	0.040
2.083	0.000	2.90	0.00	0.21	2.9	0.040
2.167	0.000	2.91	0.00	0.21	2.9	0.040
2.250	0.000	2.92	0.00	0.21	2.9	0.040
2.333	0.000	2.92	0.00	0.21	2.9	0.040
2.417	0.000	2.93	0.00	0.21	2.9	0.040
2.500	0.000	2.94	0.00	0.21	2.9	0.041
2.583	0.000	2.95	0.00	0.21	2.9	0.041
2.667	0.000	2.96	0.00	0.21	2.9	0.041
2.750	0.000	2.97	0.00	0.21	2.9	0.042
2.833	0.000	2.98	0.00	0.21	2.9	0.042
2.917	0.000	2.99	0.00	0.21	2.9	0.043
3.000	0.000	3.00	0.00	0.21	2.9	0.044
3.083	0.000	3.01	0.00	0.21	2.9	0.044
3.167	0.000	3.01	0.00	0.22	2.9	0.045
3.250	0.000	3.02	0.00	0.22	2.9	0.046
3.333	0.000	3.03	0.00	0.22	2.9	0.047
3.417	0.000	3.04	0.00	0.22	2.9	0.048
3.500	0.000	3.05	0.00	0.22	2.9	0.049
3.583	0.000	3.06	0.00	0.22	2.9	0.050
3.667	0.000	3.07	0.00	0.22	2.9	0.051
3.750	0.000	3.08	0.00	0.22	2.9	0.052
3.833	0.000	3.09	0.00	0.22	2.9	0.053
3.917	0.000	3.10	0.00	0.23	2.9	0.055
4.000	0.000	3.11	0.00	0.23	2.9	0.056
4.083	0.000	3.12	0.00	0.23	2.9	0.057
4.167	0.000	3.13	0.00	0.23	2.9	0.059
4.250	0.000	3.14	0.00	0.23	2.9	0.060
4.333	0.000	3.16	0.00	0.23	2.9	0.062
4.417	0.000	3.17	0.00	0.24	2.9	0.064
4.500	0.000	3.18	0.00	0.24	2.9	0.065
4.583	0.000	3.19	0.00	0.24	2.9	0.067
4.667	0.000	3.20	0.00	0.24	2.9	0.069
4.750	0.000	3.21	0.00	0.24	2.9	0.071
4.833	0.000	3.22	0.00	0.25	2.9	0.073
4.917	0.000	3.23	0.00	0.25	2.9	0.075
5.000	0.000	3.25	0.00	0.25	2.9	0.077
5.083	0.000	3.26	0.00	0.25	2.9	0.079
5.167	0.000	3.27	0.00	0.26	2.9	0.081
5.250	0.000	3.28	0.00	0.26	2.9	0.084
5.333	0.000	3.29	0.00	0.26	2.9	0.086
5.417	0.000	3.31	0.00	0.26	3.0	0.088
5.500	0.000	3.32	0.00	0.27	3.0	0.091
5.583	0.000	3.33	0.00	0.27	3.0	0.094
5.667	0.000	3.34	0.00	0.27	3.0	0.096
5.750	0.000	3.36	0.00	0.28	3.0	0.099
5.833	0.000	3.37	0.00	0.28	3.0	0.102
5.917	0.000	3.38	0.00	0.28	3.0	0.104
6.000	0.000	3.40	0.00	0.28	3.0	0.107
6.083	0.000	3.41	0.00	0.29	3.0	0.110
6.167	0.000	3.42	0.00	0.29	3.0	0.113
6.250	0.000	3.44	0.00	0.30	3.0	0.117
6.333	0.000	3.45	0.00	0.30	3.0	0.120

BLDG1W.RES

6.417	0.000	3.47	0.00	0.30	3.0	0.123
6.500	0.000	3.48	0.00	0.31	3.0	0.126
6.583	0.000	3.49	0.00	0.31	3.0	0.130
6.667	0.000	3.51	0.00	0.31	3.0	0.133
6.750	0.000	3.52	0.00	0.32	3.0	0.137
6.833	0.000	3.54	0.00	0.32	3.0	0.141
6.917	0.000	3.56	0.00	0.33	3.0	0.144
7.000	0.000	3.57	0.00	0.33	3.0	0.148
7.083	0.000	3.59	0.00	0.33	3.0	0.152
7.167	0.000	3.60	0.00	0.34	3.0	0.156
7.250	0.000	3.62	0.00	0.34	3.0	0.160
7.333	0.000	3.64	0.00	0.35	3.0	0.164
7.417	0.000	3.65	0.00	0.35	3.0	0.168
7.500	0.000	3.67	0.00	0.36	3.0	0.173
7.583	0.000	3.69	0.00	0.36	3.0	0.177
7.667	0.000	3.70	0.00	0.37	3.1	0.181
7.750	0.000	3.72	0.00	0.37	3.1	0.186
7.833	0.000	3.74	0.00	0.38	3.1	0.191
7.917	0.000	3.76	0.00	0.38	3.1	0.195
8.000	0.000	3.78	0.00	0.39	3.1	0.200
8.083	0.000	3.80	0.00	0.39	3.1	0.205
8.167	0.000	3.81	0.00	0.40	3.1	0.210
8.250	0.000	3.83	0.00	0.40	3.1	0.215
8.333	0.000	3.85	0.00	0.41	3.1	0.221
8.417	0.000	3.87	0.00	0.41	3.1	0.226
8.500	0.000	3.89	0.00	0.42	3.1	0.231
8.583	0.000	3.91	0.00	0.42	3.1	0.237
8.667	0.000	3.94	0.00	0.42	3.1	0.243
8.750	0.000	3.96	0.00	0.42	3.1	0.248
8.833	0.000	3.98	0.00	0.43	3.1	0.254
8.917	0.000	4.00	0.00	0.43	3.1	0.260
9.000	0.000	4.02	0.00	0.43	3.1	0.267
9.083	0.000	4.05	0.00	0.43	3.1	0.273
9.167	0.000	4.07	0.00	0.44	3.1	0.279
9.250	0.000	4.09	0.00	0.44	3.1	0.286
9.333	0.000	4.12	0.00	0.44	3.1	0.293
9.417	0.000	4.14	0.00	0.45	3.1	0.300
9.500	0.000	4.17	0.00	0.45	3.1	0.307
9.583	0.000	4.19	0.00	0.45	3.1	0.314
9.667	0.000	4.22	0.00	0.46	3.1	0.322
9.750	0.000	4.24	0.00	0.46	3.1	0.329
9.833	0.000	4.27	0.00	0.46	3.2	0.337
9.917	0.000	4.30	0.00	0.47	3.2	0.345
10.000	0.000	4.33	0.00	0.47	3.2	0.353
10.083	0.000	4.36	0.00	0.47	3.2	0.361
10.167	0.000	4.38	0.00	0.48	3.2	0.369
10.250	0.000	4.41	0.00	0.48	3.2	0.378
10.333	0.000	4.44	0.00	0.49	3.2	0.387
10.417	0.000	4.48	0.00	0.49	3.2	0.396
10.500	0.000	4.51	0.00	0.49	3.2	0.405
10.583	0.000	4.54	0.00	0.50	3.2	0.414
10.667	0.000	4.57	0.00	0.50	3.2	0.424
10.750	0.000	4.61	0.00	0.51	3.2	0.433
10.833	0.000	4.64	0.00	0.51	3.2	0.443
10.917	0.000	4.68	0.00	0.52	3.2	0.453
11.000	0.000	4.71	0.00	0.52	3.2	0.464
11.083	0.000	4.75	0.00	0.53	3.2	0.474
11.167	0.000	4.79	0.00	0.53	3.2	0.485
11.250	0.000	4.83	0.00	0.54	3.2	0.496
11.333	0.000	4.87	0.00	0.54	3.2	0.507
11.417	0.000	4.91	0.00	0.55	3.2	0.519
11.500	0.000	4.95	0.00	0.55	3.2	0.531
11.583	0.000	4.99	0.00	0.56	3.2	0.543
11.667	0.000	5.04	0.00	0.56	3.2	0.555
11.750	0.000	5.08	0.00	0.57	3.3	0.568
11.833	0.000	5.13	0.00	0.57	3.3	0.581
11.917	0.000	5.18	0.00	0.58	3.3	0.594
12.000	0.000	5.23	0.00	0.59	3.3	0.607
12.083	0.000	5.34	0.00	0.59	3.3	0.621
12.167	0.000	5.73	0.00	0.60	3.3	0.638
12.250	0.000	6.19	0.00	0.61	3.3	0.658
12.333	0.000	6.41	0.00	0.62	3.3	0.680
12.417	0.000	6.50	0.00	0.62	3.3	0.702
12.500	0.000	6.57	0.00	0.63	3.3	0.724
12.583	0.000	6.63	0.00	0.64	3.3	0.747
12.667	0.000	6.69	0.00	0.64	3.3	0.770
12.750	0.000	6.75	0.00	0.65	3.3	0.793

BLDG1W.RES

12.833	0.000	6.82	0.00	0.66	3.3	0.817
12.917	0.000	6.89	0.00	0.67	3.4	0.842
13.000	0.000	6.95	0.00	0.67	3.4	0.866
13.083	0.000	7.03	0.00	0.68	3.4	0.892
13.167	0.000	7.10	0.00	0.69	3.4	0.917
13.250	0.000	7.18	0.00	0.70	3.4	0.943
13.333	0.000	7.26	0.00	0.71	3.4	0.970
13.417	0.000	7.34	0.00	0.72	3.4	0.997
13.500	0.000	7.43	0.00	0.72	3.4	1.025
13.583	0.000	7.52	0.00	0.73	3.4	1.053
13.667	0.000	7.61	0.00	0.74	3.4	1.082
13.750	0.000	7.71	0.00	0.75	3.4	1.111
13.833	0.000	7.82	0.00	0.76	3.4	1.141
13.917	0.000	7.92	0.00	0.77	3.5	1.172
14.000	0.000	8.04	0.00	0.78	3.5	1.204
14.083	0.000	8.14	0.00	0.79	3.5	1.236
14.167	0.000	8.16	0.00	0.80	3.5	1.268
14.250	0.000	8.15	0.00	0.81	3.5	1.300
14.333	0.000	8.24	0.00	0.82	3.5	1.333
14.417	0.000	8.39	0.00	0.83	3.5	1.366
14.500	0.000	8.55	0.00	0.84	3.5	1.401
14.583	0.000	8.73	0.00	0.85	3.5	1.437
14.667	0.000	8.92	0.00	0.86	3.5	1.474
14.750	0.000	9.13	0.00	0.87	3.6	1.512
14.833	0.000	9.35	0.00	0.88	3.6	1.552
14.917	0.000	9.59	0.00	0.89	3.6	1.593
15.000	0.000	9.86	0.00	0.90	3.6	1.637
15.083	0.000	10.16	0.00	0.91	3.6	1.682
15.167	0.000	10.49	0.00	0.92	3.6	1.729
15.250	0.000	10.85	0.00	0.94	3.6	1.779
15.333	0.000	11.28	0.00	0.95	3.6	1.832
15.417	0.000	11.55	0.00	0.96	3.6	1.886
15.500	0.000	10.90	0.00	0.98	3.7	1.936
15.583	0.000	10.06	0.00	0.99	3.7	1.980
15.667	0.000	10.31	0.00	1.00	3.7	2.026
15.750	0.000	11.19	0.00	1.01	3.7	2.077
15.833	0.000	12.45	0.00	1.03	3.7	2.137
15.917	0.000	14.41	0.00	1.05	3.7	2.211
16.000	0.000	18.40	0.00	1.07	3.7	2.312
16.083	0.000	28.91	0.00	1.11	3.8	2.485
16.167	0.000	52.13	0.00	1.19	3.8	2.818
16.250	0.000	54.51	0.00	1.26	3.9	3.166
16.333	0.000	29.98	0.00	1.30	4.0	3.345
16.417	0.000	16.57	0.00	1.32	4.0	3.432
16.500	0.000	12.79	0.00	1.33	4.0	3.492
16.583	0.000	12.13	0.00	1.34	4.0	3.548
16.667	0.000	11.40	0.00	1.35	4.0	3.599
16.750	0.000	10.58	0.00	1.36	4.0	3.644
16.833	0.000	9.91	0.00	1.37	4.1	3.684
16.917	0.000	9.39	0.00	1.38	4.1	3.721
17.000	0.000	8.95	0.00	1.38	4.1	3.754
17.083	0.000	8.59	0.00	1.39	4.1	3.785
17.167	0.000	8.38	0.00	1.40	4.1	3.815
17.250	0.000	8.23	0.00	1.40	4.1	3.844
17.333	0.000	8.04	0.00	1.41	4.1	3.871
17.417	0.000	7.82	0.00	1.41	4.1	3.896
17.500	0.000	7.62	0.00	1.42	4.1	3.920
17.583	0.000	7.43	0.00	1.42	4.1	3.943
17.667	0.000	7.26	0.00	1.43	4.1	3.965
17.750	0.000	7.11	0.00	1.43	4.1	3.986
17.833	0.000	6.96	0.00	1.43	4.1	4.005
17.917	0.000	6.82	0.00	1.44	4.1	4.024
18.000	0.000	6.70	0.00	1.44	4.1	4.041
18.083	0.000	6.52	0.00	1.44	4.1	4.058
18.167	0.000	6.07	0.00	1.45	4.1	4.071
18.250	0.000	5.55	0.00	1.45	4.1	4.081
18.333	0.000	5.29	0.00	1.45	4.1	4.089
18.417	0.000	5.15	0.00	1.45	4.1	4.096
18.500	0.000	5.05	0.00	1.45	4.1	4.102
18.583	0.000	4.96	0.00	1.45	4.1	4.108
18.667	0.000	4.87	0.00	1.45	4.1	4.113
18.750	0.000	4.79	0.00	1.46	4.1	4.117
18.833	0.000	4.71	0.00	1.46	4.1	4.121
18.917	0.000	4.64	0.00	1.46	4.1	4.124
19.000	0.000	4.57	0.00	1.46	4.1	4.127
19.083	0.000	4.51	0.00	1.46	4.1	4.130
19.167	0.000	4.45	0.00	1.46	4.1	4.132



BLDG1W.RES						
19.250	0.000	4.39	0.00	1.46	4.1	4.134
19.333	0.000	4.33	0.00	1.46	4.1	4.135
19.417	0.000	4.27	0.00	1.46	4.1	4.136
19.500	0.000	4.22	0.00	1.46	4.1	4.136
19.583	0.000	4.17	0.00	1.46	4.1	4.136
19.667	0.000	4.12	0.00	1.46	4.1	4.136
19.750	0.000	4.07	0.00	1.46	4.1	4.135
19.833	0.000	4.02	0.00	1.46	4.1	4.135
19.917	0.000	3.98	0.00	1.46	4.1	4.133
20.000	0.000	3.94	0.00	1.46	4.1	4.132
20.083	0.000	3.90	0.00	1.46	4.1	4.130
20.167	0.000	3.85	0.00	1.46	4.1	4.128
20.250	0.000	3.82	0.00	1.46	4.1	4.126
20.333	0.000	3.78	0.00	1.46	4.1	4.123
20.417	0.000	3.74	0.00	1.46	4.1	4.121
20.500	0.000	3.71	0.00	1.46	4.1	4.118
20.583	0.000	3.67	0.00	1.45	4.1	4.114
20.667	0.000	3.64	0.00	1.45	4.1	4.111
20.750	0.000	3.60	0.00	1.45	4.1	4.107
20.833	0.000	3.57	0.00	1.45	4.1	4.103
20.917	0.000	3.54	0.00	1.45	4.1	4.099
21.000	0.000	3.51	0.00	1.45	4.1	4.095
21.083	0.000	3.48	0.00	1.45	4.1	4.090
21.167	0.000	3.45	0.00	1.45	4.1	4.085
21.250	0.000	3.42	0.00	1.45	4.1	4.081
21.333	0.000	3.40	0.00	1.45	4.1	4.075
21.417	0.000	3.37	0.00	1.45	4.1	4.070
21.500	0.000	3.34	0.00	1.45	4.1	4.065
21.583	0.000	3.32	0.00	1.44	4.1	4.059
21.667	0.000	3.29	0.00	1.44	4.1	4.053
21.750	0.000	3.27	0.00	1.44	4.1	4.047
21.833	0.000	3.25	0.00	1.44	4.1	4.041
21.917	0.000	3.22	0.00	1.44	4.1	4.035
22.000	0.000	3.20	0.00	1.44	4.1	4.029
22.083	0.000	3.18	0.00	1.44	4.1	4.022
22.167	0.000	3.16	0.00	1.44	4.1	4.015
22.250	0.000	3.13	0.00	1.43	4.1	4.009
22.333	0.000	3.11	0.00	1.43	4.1	4.002
22.417	0.000	3.09	0.00	1.43	4.1	3.994
22.500	0.000	3.07	0.00	1.43	4.1	3.987
22.583	0.000	3.05	0.00	1.43	4.1	3.980
22.667	0.000	3.03	0.00	1.43	4.1	3.972
22.750	0.000	3.01	0.00	1.43	4.1	3.965
22.833	0.000	3.00	0.00	1.42	4.1	3.957
22.917	0.000	2.98	0.00	1.42	4.1	3.949
23.000	0.000	2.96	0.00	1.42	4.1	3.941
23.083	0.000	2.94	0.00	1.42	4.1	3.933
23.167	0.000	2.92	0.00	1.42	4.1	3.925
23.250	0.000	2.91	0.00	1.42	4.1	3.917
23.333	0.000	2.89	0.00	1.42	4.1	3.909
23.417	0.000	2.87	0.00	1.41	4.1	3.900
23.500	0.000	2.86	0.00	1.41	4.1	3.891
23.583	0.000	2.84	0.00	1.41	4.1	3.883
23.667	0.000	2.83	0.00	1.41	4.1	3.874
23.750	0.000	2.81	0.00	1.41	4.1	3.865
23.833	0.000	2.80	0.00	1.41	4.1	3.856
23.917	0.000	2.78	0.00	1.40	4.1	3.847

←  $Q_{100}(\text{DISCHARGE}) = 4.1 \text{ CFS}$   
 PONDING DEPTH = 1.46 FT  
 VOLUME STORED = 4.136 AC-FT

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PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 10.644 AF  
 BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)  
 OUTFLOW VOLUME = 10.644 AF  
 LOSS VOLUME = 0.000 AF

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END OF FLOODSCX ROUTING ANALYSIS



Job #3654 Grove Business Center, Ontario  
Volume in Building 1 East Truck Yard, Node 261

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
658.19	0.00	0	1648	1648	0.04	2.9
658.40	0.21	15700	8109	9758	0.22	3.1
658.60	0.41	65390	19025	28783	0.66	3.3
658.80	0.61	124860	27938	56721	1.30	3.5
659.00	0.81	154520	33261	89982	2.07	3.7
659.20	1.01	178090	37732	127714	2.93	3.9
659.40	1.21	199230	41193	168907	3.88	4.1
659.60	1.41	212700	43890	212797	4.89	4.3
659.80	1.61	226200	22960	235756	5.41	4.4
659.90	1.71	233000				

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FLOOD ROUTING ANALYSIS  
 USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)  
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Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* 100-YEAR DETENTION \*  
 \* BUILDING 1 EAST TRUCK YARD, NODE 261 \*  
 \*\*\*\*\*

FILE NAME: W:\3654\BLDG1E.DAT  
 TIME/DATE OF STUDY: 23:07 12/12/2020

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 261.00 TO NODE 261.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 23.400 ACRES  
 BASEFLOW = 0.000 CFS/SQUARE-MILE  
 \*USER ENTERED "LAG" TIME = 0.128 HOURS  
 CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.  
 THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)  
 MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.  
 VALLEY(DEVELOPED) S-GRAPH SELECTED  
 MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 \*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL(INCH)= 0.37  
 SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)= 0.75  
 SPECIFIED PEAK 1-HOUR RAINFALL(INCH) = 1.00  
 SPECIFIED PEAK 3-HOUR RAINFALL(INCH) = 1.90  
 SPECIFIED PEAK 6-HOUR RAINFALL(INCH) = 2.90  
 SPECIFIED PEAK 24-HOUR RAINFALL(INCH) = 5.90

PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
 5-MINUTE FACTOR = 0.999  
 30-MINUTE FACTOR = 0.999  
 1-HOUR FACTOR = 0.999  
 3-HOUR FACTOR = 1.000  
 6-HOUR FACTOR = 1.000  
 24-HOUR FACTOR = 1.000

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
 UNIT INTERVAL PERCENTAGE OF LAG-TIME = 65.104

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES(CFS)
1	7.520	21.281
2	47.265	112.475
3	85.866	109.240
4	97.069	31.703
5	99.072	5.667
6	99.629	1.576

BLDG1E.RES

7 99.907 0.788  
 8 100.000 0.263

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UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0114
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119

BLDG1E.RES

68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188

BLDG1E.RES

145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0311	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0369	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0587	0.0035	0.0552
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176

BLDG1E.RES

222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90  
 TOTAL SOIL-LOSS(INCHES) = 0.43  
 TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

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 TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.8324  
 TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 10.6665  
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2 4 - H O U R   S T O R M  
R U N O F F   H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	15.0	30.0	45.0	60.0
0.083	0.0014	0.21	Q	.	.	.	.
0.167	0.0103	1.29	Q	.	.	.	.
0.250	0.0265	2.35	VQ	.	.	.	.
0.333	0.0449	2.67	VQ	.	.	.	.
0.417	0.0637	2.73	VQ	.	.	.	.
0.500	0.0826	2.75	VQ	.	.	.	.
0.583	0.1017	2.77	VQ	.	.	.	.
0.667	0.1208	2.77	VQ	.	.	.	.
0.750	0.1400	2.78	VQ	.	.	.	.
0.833	0.1592	2.79	VQ	.	.	.	.
0.917	0.1784	2.80	VQ	.	.	.	.
1.000	0.1977	2.80	VQ	.	.	.	.
1.083	0.2171	2.81	VQ	.	.	.	.
1.167	0.2365	2.82	VQ	.	.	.	.
1.250	0.2560	2.83	VQ	.	.	.	.
1.333	0.2755	2.83	.Q	.	.	.	.
1.417	0.2951	2.84	.Q	.	.	.	.
1.500	0.3147	2.85	.Q	.	.	.	.
1.583	0.3344	2.86	.Q	.	.	.	.
1.667	0.3542	2.87	.Q	.	.	.	.
1.750	0.3739	2.87	.Q	.	.	.	.
1.833	0.3938	2.88	.Q	.	.	.	.
1.917	0.4137	2.89	.Q	.	.	.	.
2.000	0.4337	2.90	.Q	.	.	.	.
2.083	0.4537	2.91	.Q	.	.	.	.
2.167	0.4738	2.92	.Q	.	.	.	.
2.250	0.4939	2.92	.Q	.	.	.	.
2.333	0.5141	2.93	.Q	.	.	.	.
2.417	0.5344	2.94	.QV	.	.	.	.
2.500	0.5547	2.95	.QV	.	.	.	.
2.583	0.5751	2.96	.QV	.	.	.	.
2.667	0.5955	2.97	.QV	.	.	.	.
2.750	0.6160	2.98	.QV	.	.	.	.
2.833	0.6366	2.99	.QV	.	.	.	.
2.917	0.6572	2.99	.QV	.	.	.	.
3.000	0.6779	3.00	. Q	.	.	.	.
3.083	0.6986	3.01	. Q	.	.	.	.
3.167	0.7195	3.02	. Q	.	.	.	.
3.250	0.7403	3.03	. Q	.	.	.	.
3.333	0.7613	3.04	. Q	.	.	.	.
3.417	0.7823	3.05	. Q	.	.	.	.
3.500	0.8034	3.06	. QV	.	.	.	.
3.583	0.8245	3.07	. QV	.	.	.	.
3.667	0.8457	3.08	. QV	.	.	.	.
3.750	0.8670	3.09	. QV	.	.	.	.
3.833	0.8884	3.10	. QV	.	.	.	.
3.917	0.9098	3.11	. QV	.	.	.	.
4.000	0.9313	3.12	. QV	.	.	.	.
4.083	0.9529	3.13	. QV	.	.	.	.
4.167	0.9745	3.14	. QV	.	.	.	.
4.250	0.9962	3.15	. QV	.	.	.	.
4.333	1.0180	3.16	. QV	.	.	.	.
4.417	1.0399	3.17	. QV	.	.	.	.
4.500	1.0618	3.19	. QV	.	.	.	.
4.583	1.0839	3.20	. Q V	.	.	.	.
4.667	1.1060	3.21	. Q V	.	.	.	.
4.750	1.1281	3.22	. Q V	.	.	.	.
4.833	1.1504	3.23	. Q V	.	.	.	.
4.917	1.1727	3.24	. Q V	.	.	.	.
5.000	1.1951	3.25	. Q V	.	.	.	.
5.083	1.2176	3.27	. Q V	.	.	.	.
5.167	1.2402	3.28	. Q V	.	.	.	.
5.250	1.2629	3.29	. Q V	.	.	.	.
5.333	1.2856	3.30	. Q V	.	.	.	.
5.417	1.3084	3.32	. Q V	.	.	.	.
5.500	1.3314	3.33	. Q V	.	.	.	.



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5.583	1.3544	3.34	. Q	V	.	.	.	.	.
5.667	1.3775	3.35	. Q	V	.	.	.	.	.
5.750	1.4007	3.37	. Q	V	.	.	.	.	.
5.833	1.4239	3.38	. Q	V	.	.	.	.	.
5.917	1.4473	3.39	. Q	V	.	.	.	.	.
6.000	1.4708	3.41	. Q	V	.	.	.	.	.
6.083	1.4943	3.42	. Q	V	.	.	.	.	.
6.167	1.5180	3.43	. Q	V	.	.	.	.	.
6.250	1.5417	3.45	. Q	V	.	.	.	.	.
6.333	1.5655	3.46	. Q	V	.	.	.	.	.
6.417	1.5895	3.48	. Q	V	.	.	.	.	.
6.500	1.6135	3.49	. Q	V	.	.	.	.	.
6.583	1.6377	3.51	. Q	V	.	.	.	.	.
6.667	1.6619	3.52	. Q	V	.	.	.	.	.
6.750	1.6863	3.54	. Q	V	.	.	.	.	.
6.833	1.7107	3.55	. Q	V	.	.	.	.	.
6.917	1.7353	3.57	. Q	V	.	.	.	.	.
7.000	1.7599	3.58	. Q	V	.	.	.	.	.
7.083	1.7847	3.60	. Q	V	.	.	.	.	.
7.167	1.8096	3.61	. Q	V	.	.	.	.	.
7.250	1.8346	3.63	. Q	V	.	.	.	.	.
7.333	1.8597	3.65	. Q	V	.	.	.	.	.
7.417	1.8850	3.66	. Q	V	.	.	.	.	.
7.500	1.9103	3.68	. Q	V	.	.	.	.	.
7.583	1.9358	3.70	. Q	V	.	.	.	.	.
7.667	1.9614	3.72	. Q	V	.	.	.	.	.
7.750	1.9871	3.73	. Q	V	.	.	.	.	.
7.833	2.0129	3.75	. Q	V	.	.	.	.	.
7.917	2.0389	3.77	. Q	V	.	.	.	.	.
8.000	2.0650	3.79	. Q	V	.	.	.	.	.
8.083	2.0912	3.81	. Q	V	.	.	.	.	.
8.167	2.1176	3.83	. Q	V	.	.	.	.	.
8.250	2.1440	3.85	. Q	V	.	.	.	.	.
8.333	2.1707	3.87	. Q	V	.	.	.	.	.
8.417	2.1974	3.89	. Q	V	.	.	.	.	.
8.500	2.2243	3.91	. Q	V	.	.	.	.	.
8.583	2.2514	3.93	. Q	V	.	.	.	.	.
8.667	2.2786	3.95	. Q	V	.	.	.	.	.
8.750	2.3059	3.97	. Q	V	.	.	.	.	.
8.833	2.3334	3.99	. Q	V	.	.	.	.	.
8.917	2.3611	4.01	. Q	V	.	.	.	.	.
9.000	2.3889	4.04	. Q	V	.	.	.	.	.
9.083	2.4168	4.06	. Q	V	.	.	.	.	.
9.167	2.4449	4.08	. Q	V	.	.	.	.	.
9.250	2.4732	4.11	. Q	V	.	.	.	.	.
9.333	2.5017	4.13	. Q	V	.	.	.	.	.
9.417	2.5303	4.16	. Q	V	.	.	.	.	.
9.500	2.5591	4.18	. Q	V	.	.	.	.	.
9.583	2.5880	4.21	. Q	V	.	.	.	.	.
9.667	2.6172	4.23	. Q	V	.	.	.	.	.
9.750	2.6465	4.26	. Q	V	.	.	.	.	.
9.833	2.6760	4.29	. Q	V	.	.	.	.	.
9.917	2.7057	4.31	. Q	V	.	.	.	.	.
10.000	2.7356	4.34	. Q	V	.	.	.	.	.
10.083	2.7657	4.37	. Q	V	.	.	.	.	.
10.167	2.7960	4.40	. Q	V	.	.	.	.	.
10.250	2.8265	4.43	. Q	V	.	.	.	.	.
10.333	2.8573	4.46	. Q	V	.	.	.	.	.
10.417	2.8882	4.49	. Q	V	.	.	.	.	.
10.500	2.9193	4.52	. Q	V	.	.	.	.	.
10.583	2.9507	4.56	. Q	.V	.	.	.	.	.
10.667	2.9823	4.59	. Q	.V	.	.	.	.	.
10.750	3.0142	4.62	. Q	.V	.	.	.	.	.
10.833	3.0462	4.66	. Q	.V	.	.	.	.	.
10.917	3.0786	4.69	. Q	.V	.	.	.	.	.
11.000	3.1111	4.73	. Q	.V	.	.	.	.	.
11.083	3.1440	4.77	. Q	.V	.	.	.	.	.
11.167	3.1771	4.81	. Q	.V	.	.	.	.	.
11.250	3.2104	4.84	. Q	.V	.	.	.	.	.
11.333	3.2441	4.89	. Q	.V	.	.	.	.	.
11.417	3.2780	4.93	. Q	.V	.	.	.	.	.
11.500	3.3122	4.97	. Q	.V	.	.	.	.	.
11.583	3.3468	5.01	. Q	.V	.	.	.	.	.
11.667	3.3816	5.06	. Q	.V	.	.	.	.	.
11.750	3.4167	5.10	. Q	.V	.	.	.	.	.
11.833	3.4522	5.15	. Q	.V	.	.	.	.	.
11.917	3.4880	5.20	. Q	.V	.	.	.	.	.

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12.000	3.5242	5.25	Q	V	.	.	.
12.083	3.5612	5.38	Q	V	.	.	.
12.167	3.6014	5.84	Q	V	.	.	.
12.250	3.6447	6.29	Q	V	.	.	.
12.333	3.6892	6.46	Q	V	.	.	.
12.417	3.7342	6.53	Q	V	.	.	.
12.500	3.7796	6.60	Q	V	.	.	.
12.583	3.8254	6.66	Q	V	.	.	.
12.667	3.8717	6.72	Q	V	.	.	.
12.750	3.9184	6.78	Q	V	.	.	.
12.833	3.9656	6.85	Q	V	.	.	.
12.917	4.0132	6.91	Q	V	.	.	.
13.000	4.0613	6.98	Q	V	.	.	.
13.083	4.1099	7.05	Q	V	.	.	.
13.167	4.1590	7.13	Q	V	.	.	.
13.250	4.2086	7.21	Q	V	.	.	.
13.333	4.2588	7.29	Q	V	.	.	.
13.417	4.3096	7.37	Q	V	.	.	.
13.500	4.3610	7.46	Q	V	.	.	.
13.583	4.4130	7.55	Q	V	.	.	.
13.667	4.4657	7.65	Q	V	.	.	.
13.750	4.5190	7.75	Q	V	.	.	.
13.833	4.5731	7.85	Q	V	.	.	.
13.917	4.6280	7.96	Q	V	.	.	.
14.000	4.6836	8.08	Q	V	.	.	.
14.083	4.7400	8.18	Q	V	.	.	.
14.167	4.7962	8.17	Q	V	.	.	.
14.250	4.8525	8.17	Q	V	.	.	.
14.333	4.9096	8.29	Q	V	.	.	.
14.417	4.9677	8.43	Q	V	.	.	.
14.500	5.0269	8.60	Q	V	.	.	.
14.583	5.0874	8.78	Q	V	.	.	.
14.667	5.1492	8.98	Q	V	.	.	.
14.750	5.2125	9.19	Q	V	.	.	.
14.833	5.2774	9.42	Q	V	.	.	.
14.917	5.3439	9.66	Q	V	.	.	.
15.000	5.4124	9.94	Q	V	.	.	.
15.083	5.4829	10.24	Q	V	.	.	.
15.167	5.5558	10.58	Q	V	.	.	.
15.250	5.6312	10.95	Q	.V	.	.	.
15.333	5.7097	11.39	Q	.V	.	.	.
15.417	5.7896	11.61	Q	.V	.	.	.
15.500	5.8635	10.72	Q	.V	.	.	.
15.583	5.9321	9.96	Q	.V	.	.	.
15.667	6.0039	10.42	Q	.V	.	.	.
15.750	6.0824	11.40	Q	.V	.	.	.
15.833	6.1702	12.75	Q	.V	.	.	.
15.917	6.2726	14.87	Q.	.V	.	.	.
16.000	6.4061	19.38	Q	.V	.	.	.
16.083	6.6225	31.42	Q	.V	.	.	.
16.167	7.0211	57.87	.	.V	.	Q	.
16.250	7.3822	52.45	.	.V	.	Q	.
16.333	7.5577	25.47	.	.V	.	.	.
16.417	7.6573	14.46	Q.	.V	.	.	.
16.500	7.7423	12.35	Q.	.V	.	.	.
16.583	7.8251	12.02	Q.	.V	.	.	.
16.667	7.9023	11.21	Q	.V	.	.	.
16.750	7.9740	10.41	Q	.V	.	.	.
16.833	8.0415	9.80	Q	.	.	.	.
16.917	8.1056	9.31	Q	.	.	.	.
17.000	8.1667	8.88	Q	.	.	.	.
17.083	8.2256	8.54	Q	.	.	.	.
17.167	8.2832	8.36	Q	.	.	.V	.
17.250	8.3398	8.22	Q	.	.	.V	.
17.333	8.3949	8.01	Q	.	.	.V	.
17.417	8.4486	7.80	Q	.	.	.V	.
17.500	8.5009	7.60	Q	.	.	.V	.
17.583	8.5520	7.41	Q	.	.	.V	.
17.667	8.6019	7.25	Q	.	.	.V	.
17.750	8.6507	7.09	Q	.	.	.V	.
17.833	8.6986	6.95	Q	.	.	.V	.
17.917	8.7455	6.81	Q	.	.	.V	.
18.000	8.7915	6.69	Q	.	.	.V	.
18.083	8.8362	6.49	Q	.	.	.V	.
18.167	8.8773	5.97	Q	.	.	.V	.
18.250	8.9150	5.47	Q	.	.	.V	.
18.333	8.9512	5.25	Q	.	.	.V	.

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18.417	8.9865	5.13	. Q	.	.	.	V	.
18.500	9.0212	5.04	. Q	.	.	.	V	.
18.583	9.0553	4.95	. Q	.	.	.	V	.
18.667	9.0888	4.86	. Q	.	.	.	V	.
18.750	9.1217	4.78	. Q	.	.	.	V	.
18.833	9.1541	4.71	. Q	.	.	.	V	.
18.917	9.1861	4.64	. Q	.	.	.	V	.
19.000	9.2176	4.57	. Q	.	.	.	V	.
19.083	9.2486	4.51	. Q	.	.	.	V	.
19.167	9.2792	4.44	. Q	.	.	.	V	.
19.250	9.3094	4.38	. Q	.	.	.	V	.
19.333	9.3392	4.33	. Q	.	.	.	V	.
19.417	9.3686	4.27	. Q	.	.	.	V	.
19.500	9.3976	4.22	. Q	.	.	.	V	.
19.583	9.4263	4.17	. Q	.	.	.	V	.
19.667	9.4547	4.12	. Q	.	.	.	V	.
19.750	9.4827	4.07	. Q	.	.	.	V	.
19.833	9.5104	4.02	. Q	.	.	.	V	.
19.917	9.5378	3.98	. Q	.	.	.	V	.
20.000	9.5649	3.94	. Q	.	.	.	V	.
20.083	9.5917	3.89	. Q	.	.	.	V	.
20.167	9.6183	3.85	. Q	.	.	.	V	.
20.250	9.6446	3.82	. Q	.	.	.	V	.
20.333	9.6706	3.78	. Q	.	.	.	V	.
20.417	9.6964	3.74	. Q	.	.	.	V	.
20.500	9.7219	3.71	. Q	.	.	.	V	.
20.583	9.7472	3.67	. Q	.	.	.	V	.
20.667	9.7722	3.64	. Q	.	.	.	V	.
20.750	9.7970	3.60	. Q	.	.	.	V	.
20.833	9.8217	3.57	. Q	.	.	.	V	.
20.917	9.8460	3.54	. Q	.	.	.	V	.
21.000	9.8702	3.51	. Q	.	.	.	V	.
21.083	9.8942	3.48	. Q	.	.	.	V	.
21.167	9.9180	3.45	. Q	.	.	.	V	.
21.250	9.9416	3.43	. Q	.	.	.	V	.
21.333	9.9650	3.40	. Q	.	.	.	V	.
21.417	9.9882	3.37	. Q	.	.	.	V	.
21.500	10.0113	3.35	. Q	.	.	.	V	.
21.583	10.0341	3.32	. Q	.	.	.	V	.
21.667	10.0568	3.30	. Q	.	.	.	V	.
21.750	10.0794	3.27	. Q	.	.	.	V	.
21.833	10.1017	3.25	. Q	.	.	.	V	.
21.917	10.1239	3.22	. Q	.	.	.	V	.
22.000	10.1460	3.20	. Q	.	.	.	V	.
22.083	10.1679	3.18	. Q	.	.	.	V	.
22.167	10.1896	3.16	. Q	.	.	.	V	.
22.250	10.2112	3.14	. Q	.	.	.	V	.
22.333	10.2327	3.12	. Q	.	.	.	V	.
22.417	10.2540	3.10	. Q	.	.	.	V	.
22.500	10.2752	3.08	. Q	.	.	.	V	.
22.583	10.2962	3.06	. Q	.	.	.	V	.
22.667	10.3171	3.04	. Q	.	.	.	V	.
22.750	10.3379	3.02	. Q	.	.	.	V	.
22.833	10.3586	3.00	.Q	.	.	.	V	.
22.917	10.3791	2.98	.Q	.	.	.	V	.
23.000	10.3995	2.96	.Q	.	.	.	V	.
23.083	10.4198	2.94	.Q	.	.	.	V	.
23.167	10.4399	2.93	.Q	.	.	.	V	.
23.250	10.4600	2.91	.Q	.	.	.	V	.
23.333	10.4799	2.89	.Q	.	.	.	V	.
23.417	10.4997	2.88	.Q	.	.	.	V	.
23.500	10.5195	2.86	.Q	.	.	.	V	.
23.583	10.5391	2.85	.Q	.	.	.	V	.
23.667	10.5585	2.83	.Q	.	.	.	V	.
23.750	10.5779	2.82	.Q	.	.	.	V	.
23.833	10.5972	2.80	.Q	.	.	.	V	.
23.917	10.6164	2.79	.Q	.	.	.	V	.
24.000	10.6355	2.77	.Q	.	.	.	V	.
24.083	10.6530	2.55	.Q	.	.	.	V	.
24.167	10.6630	1.45	Q	.	.	.	V	.
24.250	10.6657	0.39	Q	.	.	.	V	.
24.333	10.6663	0.08	Q	.	.	.	V	.
24.417	10.6665	0.03	Q	.	.	.	V	.
24.500	10.6665	0.01	Q	.	.	.	V	.
24.583	10.6665	0.00	Q	.	.	.	V	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

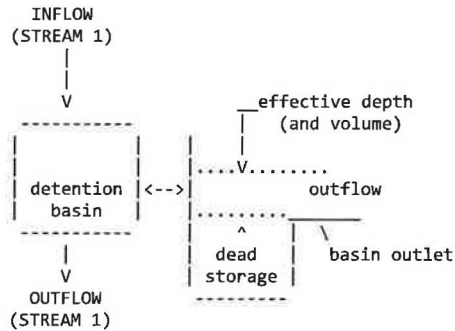
(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	365.0
20%	55.0
30%	25.0
40%	20.0
50%	15.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

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FLOW PROCESS FROM NODE 261.00 TO NODE 261.00 IS CODE = 3.1

>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<



ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1 THROUGH A FLOW-THROUGH DETENTION BASIN  
 SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 DEAD STORAGE(AF) = 0.000  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.000  
 SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000  
 DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.21	2.90	0.040
3	0.41	3.10	0.220
4	0.61	3.30	0.660
5	0.81	3.50	1.300
6	1.01	3.70	2.070
7	1.21	3.90	2.930
8	1.41	4.10	3.880
9	1.61	4.30	4.890
10	1.71	4.40	5.410

MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):  
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;  
 MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.083	0.000	0.21	0.00	0.01	0.0	0.001

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0.167	0.000	1.29	0.00	0.04	0.3	0.008
0.250	0.000	2.35	0.00	0.09	0.9	0.018
0.333	0.000	2.67	0.00	0.13	1.6	0.025
0.417	0.000	2.73	0.00	0.16	2.0	0.030
0.500	0.000	2.75	0.00	0.17	2.3	0.033
0.583	0.000	2.77	0.00	0.18	2.5	0.035
0.667	0.000	2.77	0.00	0.19	2.6	0.036
0.750	0.000	2.78	0.00	0.20	2.7	0.037
0.833	0.000	2.79	0.00	0.20	2.7	0.038
0.917	0.000	2.80	0.00	0.20	2.7	0.038
1.000	0.000	2.80	0.00	0.20	2.8	0.038
1.083	0.000	2.81	0.00	0.20	2.8	0.038
1.167	0.000	2.82	0.00	0.20	2.8	0.039
1.250	0.000	2.83	0.00	0.20	2.8	0.039
1.333	0.000	2.83	0.00	0.20	2.8	0.039
1.417	0.000	2.84	0.00	0.20	2.8	0.039
1.500	0.000	2.85	0.00	0.21	2.8	0.039
1.583	0.000	2.86	0.00	0.21	2.8	0.039
1.667	0.000	2.87	0.00	0.21	2.9	0.039
1.750	0.000	2.87	0.00	0.21	2.9	0.039
1.833	0.000	2.88	0.00	0.21	2.9	0.040
1.917	0.000	2.89	0.00	0.21	2.9	0.040
2.000	0.000	2.90	0.00	0.21	2.9	0.040
2.083	0.000	2.91	0.00	0.21	2.9	0.040
2.167	0.000	2.92	0.00	0.21	2.9	0.040
2.250	0.000	2.92	0.00	0.21	2.9	0.040
2.333	0.000	2.93	0.00	0.21	2.9	0.040
2.417	0.000	2.94	0.00	0.21	2.9	0.041
2.500	0.000	2.95	0.00	0.21	2.9	0.041
2.583	0.000	2.96	0.00	0.21	2.9	0.041
2.667	0.000	2.97	0.00	0.21	2.9	0.042
2.750	0.000	2.98	0.00	0.21	2.9	0.042
2.833	0.000	2.99	0.00	0.21	2.9	0.043
2.917	0.000	2.99	0.00	0.21	2.9	0.044
3.000	0.000	3.00	0.00	0.21	2.9	0.044
3.083	0.000	3.01	0.00	0.22	2.9	0.045
3.167	0.000	3.02	0.00	0.22	2.9	0.046
3.250	0.000	3.03	0.00	0.22	2.9	0.047
3.333	0.000	3.04	0.00	0.22	2.9	0.048
3.417	0.000	3.05	0.00	0.22	2.9	0.049
3.500	0.000	3.06	0.00	0.22	2.9	0.050
3.583	0.000	3.07	0.00	0.22	2.9	0.051
3.667	0.000	3.08	0.00	0.22	2.9	0.052
3.750	0.000	3.09	0.00	0.22	2.9	0.053
3.833	0.000	3.10	0.00	0.23	2.9	0.054
3.917	0.000	3.11	0.00	0.23	2.9	0.056
4.000	0.000	3.12	0.00	0.23	2.9	0.057
4.083	0.000	3.13	0.00	0.23	2.9	0.059
4.167	0.000	3.14	0.00	0.23	2.9	0.060
4.250	0.000	3.15	0.00	0.23	2.9	0.062
4.333	0.000	3.16	0.00	0.24	2.9	0.063
4.417	0.000	3.17	0.00	0.24	2.9	0.065
4.500	0.000	3.19	0.00	0.24	2.9	0.067
4.583	0.000	3.20	0.00	0.24	2.9	0.069
4.667	0.000	3.21	0.00	0.24	2.9	0.071
4.750	0.000	3.22	0.00	0.25	2.9	0.073
4.833	0.000	3.23	0.00	0.25	2.9	0.075
4.917	0.000	3.24	0.00	0.25	2.9	0.077
5.000	0.000	3.25	0.00	0.25	2.9	0.079
5.083	0.000	3.27	0.00	0.26	2.9	0.081
5.167	0.000	3.28	0.00	0.26	2.9	0.083
5.250	0.000	3.29	0.00	0.26	2.9	0.086
5.333	0.000	3.30	0.00	0.26	3.0	0.088
5.417	0.000	3.32	0.00	0.27	3.0	0.091
5.500	0.000	3.33	0.00	0.27	3.0	0.093
5.583	0.000	3.34	0.00	0.27	3.0	0.096
5.667	0.000	3.35	0.00	0.27	3.0	0.098
5.750	0.000	3.37	0.00	0.28	3.0	0.101
5.833	0.000	3.38	0.00	0.28	3.0	0.104
5.917	0.000	3.39	0.00	0.28	3.0	0.107
6.000	0.000	3.41	0.00	0.29	3.0	0.110
6.083	0.000	3.42	0.00	0.29	3.0	0.113
6.167	0.000	3.43	0.00	0.29	3.0	0.116
6.250	0.000	3.45	0.00	0.30	3.0	0.119
6.333	0.000	3.46	0.00	0.30	3.0	0.122
6.417	0.000	3.48	0.00	0.31	3.0	0.126
6.500	0.000	3.49	0.00	0.31	3.0	0.129

BLDG1E.RES

6.583	0.000	3.51	0.00	0.31	3.0	0.133
6.667	0.000	3.52	0.00	0.32	3.0	0.136
6.750	0.000	3.54	0.00	0.32	3.0	0.140
6.833	0.000	3.55	0.00	0.32	3.0	0.143
6.917	0.000	3.57	0.00	0.33	3.0	0.147
7.000	0.000	3.58	0.00	0.33	3.0	0.151
7.083	0.000	3.60	0.00	0.34	3.0	0.155
7.167	0.000	3.61	0.00	0.34	3.0	0.159
7.250	0.000	3.63	0.00	0.35	3.0	0.163
7.333	0.000	3.65	0.00	0.35	3.0	0.167
7.417	0.000	3.66	0.00	0.36	3.0	0.172
7.500	0.000	3.68	0.00	0.36	3.0	0.176
7.583	0.000	3.70	0.00	0.37	3.1	0.180
7.667	0.000	3.72	0.00	0.37	3.1	0.185
7.750	0.000	3.73	0.00	0.38	3.1	0.190
7.833	0.000	3.75	0.00	0.38	3.1	0.194
7.917	0.000	3.77	0.00	0.39	3.1	0.199
8.000	0.000	3.79	0.00	0.39	3.1	0.204
8.083	0.000	3.81	0.00	0.40	3.1	0.209
8.167	0.000	3.83	0.00	0.40	3.1	0.214
8.250	0.000	3.85	0.00	0.41	3.1	0.219
8.333	0.000	3.87	0.00	0.41	3.1	0.224
8.417	0.000	3.89	0.00	0.41	3.1	0.230
8.500	0.000	3.91	0.00	0.42	3.1	0.235
8.583	0.000	3.93	0.00	0.42	3.1	0.241
8.667	0.000	3.95	0.00	0.42	3.1	0.247
8.750	0.000	3.97	0.00	0.42	3.1	0.253
8.833	0.000	3.99	0.00	0.43	3.1	0.259
8.917	0.000	4.01	0.00	0.43	3.1	0.265
9.000	0.000	4.04	0.00	0.43	3.1	0.271
9.083	0.000	4.06	0.00	0.44	3.1	0.278
9.167	0.000	4.08	0.00	0.44	3.1	0.284
9.250	0.000	4.11	0.00	0.44	3.1	0.291
9.333	0.000	4.13	0.00	0.45	3.1	0.298
9.417	0.000	4.16	0.00	0.45	3.1	0.305
9.500	0.000	4.18	0.00	0.45	3.1	0.312
9.583	0.000	4.21	0.00	0.46	3.1	0.319
9.667	0.000	4.23	0.00	0.46	3.1	0.327
9.750	0.000	4.26	0.00	0.46	3.2	0.334
9.833	0.000	4.29	0.00	0.47	3.2	0.342
9.917	0.000	4.31	0.00	0.47	3.2	0.350
10.000	0.000	4.34	0.00	0.47	3.2	0.358
10.083	0.000	4.37	0.00	0.48	3.2	0.367
10.167	0.000	4.40	0.00	0.48	3.2	0.375
10.250	0.000	4.43	0.00	0.48	3.2	0.384
10.333	0.000	4.46	0.00	0.49	3.2	0.393
10.417	0.000	4.49	0.00	0.49	3.2	0.402
10.500	0.000	4.52	0.00	0.50	3.2	0.411
10.583	0.000	4.56	0.00	0.50	3.2	0.420
10.667	0.000	4.59	0.00	0.51	3.2	0.430
10.750	0.000	4.62	0.00	0.51	3.2	0.440
10.833	0.000	4.66	0.00	0.51	3.2	0.450
10.917	0.000	4.69	0.00	0.52	3.2	0.460
11.000	0.000	4.73	0.00	0.52	3.2	0.470
11.083	0.000	4.77	0.00	0.53	3.2	0.481
11.167	0.000	4.81	0.00	0.53	3.2	0.492
11.250	0.000	4.84	0.00	0.54	3.2	0.503
11.333	0.000	4.89	0.00	0.54	3.2	0.514
11.417	0.000	4.93	0.00	0.55	3.2	0.526
11.500	0.000	4.97	0.00	0.55	3.2	0.538
11.583	0.000	5.01	0.00	0.56	3.2	0.550
11.667	0.000	5.06	0.00	0.57	3.3	0.563
11.750	0.000	5.10	0.00	0.57	3.3	0.575
11.833	0.000	5.15	0.00	0.58	3.3	0.588
11.917	0.000	5.20	0.00	0.58	3.3	0.602
12.000	0.000	5.25	0.00	0.59	3.3	0.615
12.083	0.000	5.38	0.00	0.60	3.3	0.630
12.167	0.000	5.84	0.00	0.60	3.3	0.647
12.250	0.000	6.29	0.00	0.61	3.3	0.668
12.333	0.000	6.46	0.00	0.62	3.3	0.689
12.417	0.000	6.53	0.00	0.63	3.3	0.712
12.500	0.000	6.60	0.00	0.63	3.3	0.734
12.583	0.000	6.66	0.00	0.64	3.3	0.757
12.667	0.000	6.72	0.00	0.65	3.3	0.780
12.750	0.000	6.78	0.00	0.66	3.3	0.804
12.833	0.000	6.85	0.00	0.66	3.3	0.828
12.917	0.000	6.91	0.00	0.67	3.4	0.853

## BLDG1E.RES

13.000	0.000	6.98	0.00	0.68	3.4	0.878
13.083	0.000	7.05	0.00	0.69	3.4	0.903
13.167	0.000	7.13	0.00	0.69	3.4	0.929
13.250	0.000	7.21	0.00	0.70	3.4	0.955
13.333	0.000	7.29	0.00	0.71	3.4	0.982
13.417	0.000	7.37	0.00	0.72	3.4	1.009
13.500	0.000	7.46	0.00	0.73	3.4	1.037
13.583	0.000	7.55	0.00	0.74	3.4	1.066
13.667	0.000	7.65	0.00	0.75	3.4	1.095
13.750	0.000	7.75	0.00	0.76	3.4	1.124
13.833	0.000	7.85	0.00	0.76	3.4	1.155
13.917	0.000	7.96	0.00	0.77	3.5	1.186
14.000	0.000	8.08	0.00	0.78	3.5	1.217
14.083	0.000	8.18	0.00	0.79	3.5	1.250
14.167	0.000	8.17	0.00	0.80	3.5	1.282
14.250	0.000	8.17	0.00	0.81	3.5	1.314
14.333	0.000	8.29	0.00	0.82	3.5	1.347
14.417	0.000	8.43	0.00	0.83	3.5	1.381
14.500	0.000	8.60	0.00	0.84	3.5	1.416
14.583	0.000	8.78	0.00	0.85	3.5	1.452
14.667	0.000	8.98	0.00	0.86	3.5	1.490
14.750	0.000	9.19	0.00	0.87	3.6	1.528
14.833	0.000	9.42	0.00	0.88	3.6	1.569
14.917	0.000	9.66	0.00	0.89	3.6	1.611
15.000	0.000	9.94	0.00	0.90	3.6	1.654
15.083	0.000	10.24	0.00	0.91	3.6	1.700
15.167	0.000	10.58	0.00	0.93	3.6	1.748
15.250	0.000	10.95	0.00	0.94	3.6	1.799
15.333	0.000	11.39	0.00	0.95	3.6	1.852
15.417	0.000	11.61	0.00	0.97	3.7	1.907
15.500	0.000	10.72	0.00	0.98	3.7	1.955
15.583	0.000	9.96	0.00	0.99	3.7	1.999
15.667	0.000	10.42	0.00	1.00	3.7	2.045
15.750	0.000	11.40	0.00	1.02	3.7	2.098
15.833	0.000	12.75	0.00	1.03	3.7	2.160
15.917	0.000	14.87	0.00	1.05	3.7	2.237
16.000	0.000	19.38	0.00	1.07	3.8	2.345
16.083	0.000	31.42	0.00	1.12	3.8	2.535
16.167	0.000	57.87	0.00	1.20	3.9	2.907
16.250	0.000	52.45	0.00	1.28	3.9	3.241
16.333	0.000	25.47	0.00	1.31	4.0	3.389
16.417	0.000	14.46	0.00	1.32	4.0	3.461
16.500	0.000	12.35	0.00	1.33	4.0	3.519
16.583	0.000	12.02	0.00	1.35	4.0	3.574
16.667	0.000	11.21	0.00	1.36	4.0	3.623
16.750	0.000	10.41	0.00	1.37	4.1	3.667
16.833	0.000	9.80	0.00	1.37	4.1	3.706
16.917	0.000	9.31	0.00	1.38	4.1	3.742
17.000	0.000	8.88	0.00	1.39	4.1	3.776
17.083	0.000	8.54	0.00	1.39	4.1	3.806
17.167	0.000	8.36	0.00	1.40	4.1	3.836
17.250	0.000	8.22	0.00	1.41	4.1	3.864
17.333	0.000	8.01	0.00	1.41	4.1	3.891
17.417	0.000	7.80	0.00	1.42	4.1	3.916
17.500	0.000	7.60	0.00	1.42	4.1	3.940
17.583	0.000	7.41	0.00	1.43	4.1	3.963
17.667	0.000	7.25	0.00	1.43	4.1	3.985
17.750	0.000	7.09	0.00	1.43	4.1	4.005
17.833	0.000	6.95	0.00	1.44	4.1	4.025
17.917	0.000	6.81	0.00	1.44	4.1	4.043
18.000	0.000	6.69	0.00	1.45	4.1	4.061
18.083	0.000	6.49	0.00	1.45	4.1	4.077
18.167	0.000	5.97	0.00	1.45	4.1	4.089
18.250	0.000	5.47	0.00	1.45	4.1	4.099
18.333	0.000	5.25	0.00	1.45	4.1	4.106
18.417	0.000	5.13	0.00	1.46	4.1	4.113
18.500	0.000	5.04	0.00	1.46	4.1	4.119
18.583	0.000	4.95	0.00	1.46	4.1	4.125
18.667	0.000	4.86	0.00	1.46	4.1	4.130
18.750	0.000	4.78	0.00	1.46	4.1	4.134
18.833	0.000	4.71	0.00	1.46	4.2	4.138
18.917	0.000	4.64	0.00	1.46	4.2	4.141
19.000	0.000	4.57	0.00	1.46	4.2	4.144
19.083	0.000	4.51	0.00	1.46	4.2	4.146
19.167	0.000	4.44	0.00	1.46	4.2	4.148
19.250	0.000	4.38	0.00	1.46	4.2	4.150
19.333	0.000	4.33	0.00	1.46	4.2	4.151

				BLDGIE.RES		
19.417	0.000	4.27	0.00	1.46	4.2	4.152
19.500	0.000	4.22	0.00	1.46	4.2	4.152
19.583	0.000	4.17	0.00	1.46	4.2	4.152
19.667	0.000	4.12	0.00	1.46	4.2	4.152
19.750	0.000	4.07	0.00	1.46	4.2	4.152
19.833	0.000	4.02	0.00	1.46	4.2	4.151
19.917	0.000	3.98	0.00	1.46	4.2	4.150
20.000	0.000	3.94	0.00	1.46	4.2	4.148
20.083	0.000	3.89	0.00	1.46	4.2	4.146
20.167	0.000	3.85	0.00	1.46	4.2	4.144
20.250	0.000	3.82	0.00	1.46	4.2	4.142
20.333	0.000	3.78	0.00	1.46	4.2	4.139
20.417	0.000	3.74	0.00	1.46	4.2	4.137
20.500	0.000	3.71	0.00	1.46	4.2	4.133
20.583	0.000	3.67	0.00	1.46	4.1	4.130
20.667	0.000	3.64	0.00	1.46	4.1	4.127
20.750	0.000	3.60	0.00	1.46	4.1	4.123
20.833	0.000	3.57	0.00	1.46	4.1	4.119
20.917	0.000	3.54	0.00	1.46	4.1	4.115
21.000	0.000	3.51	0.00	1.46	4.1	4.110
21.083	0.000	3.48	0.00	1.45	4.1	4.106
21.167	0.000	3.45	0.00	1.45	4.1	4.101
21.250	0.000	3.43	0.00	1.45	4.1	4.096
21.333	0.000	3.40	0.00	1.45	4.1	4.091
21.417	0.000	3.37	0.00	1.45	4.1	4.086
21.500	0.000	3.35	0.00	1.45	4.1	4.080
21.583	0.000	3.32	0.00	1.45	4.1	4.075
21.667	0.000	3.30	0.00	1.45	4.1	4.069
21.750	0.000	3.27	0.00	1.45	4.1	4.063
21.833	0.000	3.25	0.00	1.44	4.1	4.057
21.917	0.000	3.22	0.00	1.44	4.1	4.050
22.000	0.000	3.20	0.00	1.44	4.1	4.044
22.083	0.000	3.18	0.00	1.44	4.1	4.038
22.167	0.000	3.16	0.00	1.44	4.1	4.031
22.250	0.000	3.14	0.00	1.44	4.1	4.024
22.333	0.000	3.12	0.00	1.44	4.1	4.017
22.417	0.000	3.10	0.00	1.44	4.1	4.010
22.500	0.000	3.08	0.00	1.43	4.1	4.003
22.583	0.000	3.06	0.00	1.43	4.1	3.995
22.667	0.000	3.04	0.00	1.43	4.1	3.988
22.750	0.000	3.02	0.00	1.43	4.1	3.980
22.833	0.000	3.00	0.00	1.43	4.1	3.973
22.917	0.000	2.98	0.00	1.43	4.1	3.965
23.000	0.000	2.96	0.00	1.43	4.1	3.957
23.083	0.000	2.94	0.00	1.42	4.1	3.949
23.167	0.000	2.93	0.00	1.42	4.1	3.941
23.250	0.000	2.91	0.00	1.42	4.1	3.932
23.333	0.000	2.89	0.00	1.42	4.1	3.924
23.417	0.000	2.88	0.00	1.42	4.1	3.915
23.500	0.000	2.86	0.00	1.42	4.1	3.907
23.583	0.000	2.85	0.00	1.41	4.1	3.898
23.667	0.000	2.83	0.00	1.41	4.1	3.889
23.750	0.000	2.82	0.00	1.41	4.1	3.881
23.833	0.000	2.80	0.00	1.41	4.1	3.872
23.917	0.000	2.79	0.00	1.41	4.1	3.863

$Q_{100}(\text{DISCHARGE}) = 4.2 \text{ CFS}$   
 PONDING DEPTH = 1.46 FT  
 VOLUME STORED = 4.152 AC·FT

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PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 10.667 AF  
 BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)  
 OUTFLOW VOLUME = 10.667 AF  
 LOSS VOLUME = 0.000 AF

=====

END OF FLOODSCx ROUTING ANALYSIS



Job #3654 Grove Business Center, Ontario  
Volume in Building 2 North Truck Yard, Node 205

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
663.67	0.00	0	149	149	0.00	1.8
663.80	0.13	2300	1863	2013	0.05	1.9
664.00	0.33	16330	5902	7915	0.18	2.1
664.20	0.53	42690	11125	19040	0.44	2.2
664.40	0.73	68560	14692	33732	0.77	2.3
664.60	0.93	78360	16489	50221	1.15	2.5
664.80	1.13	86530	18129	68350	1.57	2.6
665.00	1.33	94760	19791	88141	2.02	2.7
665.20	1.53	103150	21499	109640	2.52	2.8
665.40	1.73	111840	23282	132922	3.05	2.9
665.60	1.93	120980	25132	158054	3.63	3.0
665.80	2.13	130340				

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
 USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* 100-YEAR DETENTION \*  
 \* BUILDING 2 NORTH TRUCK YARD, NODE 205 \*  
 \*\*\*\*\*

FILE NAME: W:\3654\BLDG2N.DAT  
 TIME/DATE OF STUDY: 10:36 12/10/2020

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 205.00 TO NODE 205.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 15.000 ACRES  
 BASEFLOW = 0.000 CFS/SQUARE-MILE  
 \*USER ENTERED "LAG" TIME = 0.136 HOURS  
 CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.  
 THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)  
 MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.  
 VALLEY(DEVELOPED) S-GRAPH SELECTED  
 MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 \*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL(INCH)= 0.37  
 SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)= 0.75  
 SPECIFIED PEAK 1-HOUR RAINFALL(INCH) = 1.00  
 SPECIFIED PEAK 3-HOUR RAINFALL(INCH) = 1.90  
 SPECIFIED PEAK 6-HOUR RAINFALL(INCH) = 2.90  
 SPECIFIED PEAK 24-HOUR RAINFALL(INCH) = 5.90

PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
 5-MINUTE FACTOR = 0.999  
 30-MINUTE FACTOR = 0.999  
 1-HOUR FACTOR = 0.999  
 3-HOUR FACTOR = 1.000  
 6-HOUR FACTOR = 1.000  
 24-HOUR FACTOR = 1.000

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
 UNIT INTERVAL PERCENTAGE OF LAG-TIME = 61.275

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES(CFS)
1	6.680	12.118
2	42.752	65.437
3	82.536	72.171
4	96.027	24.474
5	98.764	4.964
6	99.505	1.345

BLDG2N.RES

7	99.802	0.539
8	99.951	0.269
9	100.000	0.090

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UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118

BLDG2N.RES

67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187

BLDG2N.RES

144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0300
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0350	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0345
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0383
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0345
187	0.0423	0.0033	0.0390
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3698	0.0035	0.3663
194	0.0685	0.0035	0.0650
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0333
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0304
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179

BLDG2N.RES

221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90  
 TOTAL SOIL-LOSS(INCHES) = 0.43  
 TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

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 TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.5336  
 TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 6.8377  
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2 4 - H O U R   S T O R M  
R U N O F F   H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	10.0	20.0	30.0	40.0
0.083	0.0008	0.12	Q	.	.	.	.
0.167	0.0060	0.75	Q	.	.	.	.
0.250	0.0160	1.45	VQ	.	.	.	.
0.333	0.0276	1.69	VQ	.	.	.	.
0.417	0.0396	1.74	VQ	.	.	.	.
0.500	0.0517	1.76	VQ	.	.	.	.
0.583	0.0639	1.77	VQ	.	.	.	.
0.667	0.0762	1.78	VQ	.	.	.	.
0.750	0.0884	1.78	VQ	.	.	.	.
0.833	0.1008	1.79	VQ	.	.	.	.
0.917	0.1131	1.79	VQ	.	.	.	.
1.000	0.1255	1.80	VQ	.	.	.	.
1.083	0.1379	1.80	VQ	.	.	.	.
1.167	0.1503	1.81	VQ	.	.	.	.
1.250	0.1628	1.81	VQ	.	.	.	.
1.333	0.1753	1.82	.Q	.	.	.	.
1.417	0.1879	1.82	.Q	.	.	.	.
1.500	0.2004	1.83	.Q	.	.	.	.
1.583	0.2131	1.83	.Q	.	.	.	.
1.667	0.2257	1.84	.Q	.	.	.	.
1.750	0.2384	1.84	.Q	.	.	.	.
1.833	0.2511	1.85	.Q	.	.	.	.
1.917	0.2639	1.85	.Q	.	.	.	.
2.000	0.2767	1.86	.Q	.	.	.	.
2.083	0.2895	1.86	.Q	.	.	.	.
2.167	0.3024	1.87	.Q	.	.	.	.
2.250	0.3153	1.87	.Q	.	.	.	.
2.333	0.3282	1.88	.Q	.	.	.	.
2.417	0.3412	1.88	.Q	.	.	.	.
2.500	0.3542	1.89	.QV	.	.	.	.
2.583	0.3673	1.90	.QV	.	.	.	.
2.667	0.3804	1.90	.QV	.	.	.	.
2.750	0.3935	1.91	.QV	.	.	.	.
2.833	0.4067	1.91	.QV	.	.	.	.
2.917	0.4199	1.92	.QV	.	.	.	.
3.000	0.4332	1.93	.QV	.	.	.	.
3.083	0.4465	1.93	.QV	.	.	.	.
3.167	0.4598	1.94	.QV	.	.	.	.
3.250	0.4732	1.94	.QV	.	.	.	.
3.333	0.4866	1.95	.QV	.	.	.	.
3.417	0.5001	1.96	.QV	.	.	.	.
3.500	0.5136	1.96	.Q V	.	.	.	.
3.583	0.5271	1.97	.Q V	.	.	.	.
3.667	0.5407	1.97	.Q V	.	.	.	.
3.750	0.5544	1.98	.Q V	.	.	.	.
3.833	0.5681	1.99	.Q V	.	.	.	.
3.917	0.5818	1.99	.Q V	.	.	.	.
4.000	0.5956	2.00	. QV	.	.	.	.
4.083	0.6094	2.01	. QV	.	.	.	.
4.167	0.6233	2.01	. QV	.	.	.	.
4.250	0.6372	2.02	. QV	.	.	.	.
4.333	0.6511	2.03	. QV	.	.	.	.
4.417	0.6652	2.03	. QV	.	.	.	.
4.500	0.6792	2.04	. QV	.	.	.	.
4.583	0.6933	2.05	. Q V	.	.	.	.
4.667	0.7075	2.06	. Q V	.	.	.	.
4.750	0.7217	2.06	. Q V	.	.	.	.
4.833	0.7360	2.07	. Q V	.	.	.	.
4.917	0.7503	2.08	. Q V	.	.	.	.
5.000	0.7646	2.09	. Q V	.	.	.	.
5.083	0.7790	2.09	. Q V	.	.	.	.
5.167	0.7935	2.10	. Q V	.	.	.	.
5.250	0.8080	2.11	. Q V	.	.	.	.
5.333	0.8226	2.12	. Q V	.	.	.	.
5.417	0.8372	2.12	. Q V	.	.	.	.

BLDG2N.RES

5.500	0.8519	2.13	. Q	V	.	.	.	.
5.583	0.8667	2.14	. Q	V	.	.	.	.
5.667	0.8815	2.15	. Q	V	.	.	.	.
5.750	0.8963	2.16	. Q	V	.	.	.	.
5.833	0.9112	2.17	. Q	V	.	.	.	.
5.917	0.9262	2.17	. Q	V	.	.	.	.
6.000	0.9412	2.18	. Q	V	.	.	.	.
6.083	0.9563	2.19	. Q	V	.	.	.	.
6.167	0.9715	2.20	. Q	V	.	.	.	.
6.250	0.9867	2.21	. Q	V	.	.	.	.
6.333	1.0020	2.22	. Q	V	.	.	.	.
6.417	1.0173	2.23	. Q	V	.	.	.	.
6.500	1.0327	2.24	. Q	V	.	.	.	.
6.583	1.0482	2.25	. Q	V	.	.	.	.
6.667	1.0637	2.26	. Q	V	.	.	.	.
6.750	1.0793	2.27	. Q	V	.	.	.	.
6.833	1.0950	2.28	. Q	V	.	.	.	.
6.917	1.1107	2.29	. Q	V	.	.	.	.
7.000	1.1265	2.30	. Q	V	.	.	.	.
7.083	1.1424	2.31	. Q	V	.	.	.	.
7.167	1.1584	2.32	. Q	V	.	.	.	.
7.250	1.1744	2.33	. Q	V	.	.	.	.
7.333	1.1905	2.34	. Q	V	.	.	.	.
7.417	1.2066	2.35	. Q	V	.	.	.	.
7.500	1.2229	2.36	. Q	V	.	.	.	.
7.583	1.2392	2.37	. Q	V	.	.	.	.
7.667	1.2556	2.38	. Q	V	.	.	.	.
7.750	1.2721	2.39	. Q	V	.	.	.	.
7.833	1.2886	2.40	. Q	V	.	.	.	.
7.917	1.3053	2.42	. Q	V	.	.	.	.
8.000	1.3220	2.43	. Q	V	.	.	.	.
8.083	1.3388	2.44	. Q	V	.	.	.	.
8.167	1.3557	2.45	. Q	V	.	.	.	.
8.250	1.3726	2.46	. Q	V	.	.	.	.
8.333	1.3897	2.48	. Q	V	.	.	.	.
8.417	1.4068	2.49	. Q	V	.	.	.	.
8.500	1.4241	2.50	. Q	V	.	.	.	.
8.583	1.4414	2.52	. Q	V	.	.	.	.
8.667	1.4588	2.53	. Q	V	.	.	.	.
8.750	1.4763	2.54	. Q	V	.	.	.	.
8.833	1.4940	2.56	. Q	V	.	.	.	.
8.917	1.5117	2.57	. Q	V	.	.	.	.
9.000	1.5295	2.59	. Q	V	.	.	.	.
9.083	1.5474	2.60	. Q	V	.	.	.	.
9.167	1.5654	2.62	. Q	V	.	.	.	.
9.250	1.5835	2.63	. Q	V	.	.	.	.
9.333	1.6018	2.65	. Q	V	.	.	.	.
9.417	1.6201	2.66	. Q	V	.	.	.	.
9.500	1.6385	2.68	. Q	V	.	.	.	.
9.583	1.6571	2.69	. Q	V	.	.	.	.
9.667	1.6758	2.71	. Q	V	.	.	.	.
9.750	1.6946	2.73	. Q	V	.	.	.	.
9.833	1.7135	2.75	. Q	V	.	.	.	.
9.917	1.7325	2.76	. Q	V	.	.	.	.
10.000	1.7516	2.78	. Q	V	.	.	.	.
10.083	1.7709	2.80	. Q	V	.	.	.	.
10.167	1.7903	2.82	. Q	V	.	.	.	.
10.250	1.8099	2.84	. Q	V	.	.	.	.
10.333	1.8296	2.86	. Q	V	.	.	.	.
10.417	1.8494	2.88	. Q	V	.	.	.	.
10.500	1.8693	2.90	. Q	V	.	.	.	.
10.583	1.8894	2.92	. Q	.V	.	.	.	.
10.667	1.9097	2.94	. Q	.V	.	.	.	.
10.750	1.9301	2.96	. Q	.V	.	.	.	.
10.833	1.9506	2.98	. Q	.V	.	.	.	.
10.917	1.9713	3.01	. Q	.V	.	.	.	.
11.000	1.9922	3.03	. Q	.V	.	.	.	.
11.083	2.0132	3.05	. Q	.V	.	.	.	.
11.167	2.0344	3.08	. Q	.V	.	.	.	.
11.250	2.0558	3.10	. Q	.V	.	.	.	.
11.333	2.0773	3.13	. Q	.V	.	.	.	.
11.417	2.0991	3.16	. Q	.V	.	.	.	.
11.500	2.1210	3.18	. Q	.V	.	.	.	.
11.583	2.1431	3.21	. Q	.V	.	.	.	.
11.667	2.1654	3.24	. Q	.V	.	.	.	.
11.750	2.1879	3.27	. Q	.V	.	.	.	.
11.833	2.2106	3.30	. Q	.V	.	.	.	.



BLDG2N.RES

11.917	2.2336	3.33	Q	V	.	.	.	.	.
12.000	2.2567	3.36	Q	V	.	.	.	.	.
12.083	2.2804	3.44	Q	V	.	.	.	.	.
12.167	2.3059	3.71	Q	V	.	.	.	.	.
12.250	2.3335	4.01	Q	V	.	.	.	.	.
12.333	2.3619	4.13	Q	V	.	.	.	.	.
12.417	2.3907	4.18	Q	V	.	.	.	.	.
12.500	2.4198	4.22	Q	V	.	.	.	.	.
12.583	2.4492	4.26	Q	V	.	.	.	.	.
12.667	2.4788	4.30	Q	V	.	.	.	.	.
12.750	2.5087	4.34	Q	V	.	.	.	.	.
12.833	2.5389	4.38	Q	V	.	.	.	.	.
12.917	2.5694	4.43	Q	V	.	.	.	.	.
13.000	2.6002	4.47	Q	V	.	.	.	.	.
13.083	2.6313	4.52	Q	V	.	.	.	.	.
13.167	2.6628	4.57	Q	V	.	.	.	.	.
13.250	2.6946	4.62	Q	V	.	.	.	.	.
13.333	2.7267	4.67	Q	V	.	.	.	.	.
13.417	2.7592	4.72	Q	V	.	.	.	.	.
13.500	2.7921	4.78	Q	V	.	.	.	.	.
13.583	2.8254	4.84	Q	V	.	.	.	.	.
13.667	2.8591	4.90	Q	V	.	.	.	.	.
13.750	2.8933	4.96	Q	V	.	.	.	.	.
13.833	2.9279	5.03	Q	V	.	.	.	.	.
13.917	2.9630	5.10	Q	V	.	.	.	.	.
14.000	2.9987	5.17	Q	V	.	.	.	.	.
14.083	3.0347	5.24	Q	V	.	.	.	.	.
14.167	3.0708	5.24	Q	V	.	.	.	.	.
14.250	3.1068	5.24	Q	V	.	.	.	.	.
14.333	3.1433	5.30	Q	V	.	.	.	.	.
14.417	3.1805	5.40	Q	V	.	.	.	.	.
14.500	3.2184	5.50	Q	V	.	.	.	.	.
14.583	3.2571	5.62	Q	V	.	.	.	.	.
14.667	3.2966	5.74	Q	V	.	.	.	.	.
14.750	3.3371	5.87	Q	V	.	.	.	.	.
14.833	3.3785	6.02	Q	V	.	.	.	.	.
14.917	3.4211	6.18	Q	V	.	.	.	.	.
15.000	3.4648	6.35	Q	V	.	.	.	.	.
15.083	3.5099	6.54	Q	V	.	.	.	.	.
15.167	3.5564	6.76	Q	V	.	.	.	.	.
15.250	3.6046	6.99	Q	.V	.	.	.	.	.
15.333	3.6546	7.27	Q	.V	.	.	.	.	.
15.417	3.7058	7.43	Q	.V	.	.	.	.	.
15.500	3.7536	6.94	Q	.V	.	.	.	.	.
15.583	3.7979	6.42	Q	.V	.	.	.	.	.
15.667	3.8437	6.65	Q	.V	.	.	.	.	.
15.750	3.8936	7.25	Q	.V	.	.	.	.	.
15.833	3.9493	8.08	Q	.V	.	.	.	.	.
15.917	4.0140	9.40	Q	.V	.	.	.	.	.
16.000	4.0974	12.12	Q	.V	.	.	.	.	.
16.083	4.2306	19.33	.	Q.	V	.	.	.	.
16.167	4.4733	35.25	.	.	V	.	.	Q	.
16.250	4.7110	34.52	.	.	V	.	.	Q	.
16.333	4.8338	17.82	.	Q	V	.	.	.	.
16.417	4.9017	9.87	Q.	.	V	.	.	.	.
16.500	4.9572	8.06	Q	.	V	.	.	.	.
16.583	5.0105	7.74	Q	.	V	.	.	.	.
16.667	5.0605	7.26	Q	.	V	.	.	.	.
16.750	5.1070	6.74	Q	.	V	.	.	.	.
16.833	5.1505	6.32	Q	.	V	.	.	.	.
16.917	5.1918	6.00	Q	.	V	.	.	.	.
17.000	5.2312	5.72	Q	.	V	.	.	.	.
17.083	5.2691	5.50	Q	.	V	.	.	.	.
17.167	5.3061	5.37	Q	.	.V	.	.	.	.
17.250	5.3424	5.28	Q	.	.V	.	.	.	.
17.333	5.3779	5.15	Q	.	.V	.	.	.	.
17.417	5.4124	5.01	Q	.	.V	.	.	.	.
17.500	5.4460	4.88	Q	.	.V	.	.	.	.
17.583	5.4788	4.76	Q	.	.V	.	.	.	.
17.667	5.5109	4.66	Q	.	.V	.	.	.	.
17.750	5.5422	4.55	Q	.	.V	.	.	.	.
17.833	5.5730	4.46	Q	.	.V	.	.	.	.
17.917	5.6031	4.37	Q	.	.V	.	.	.	.
18.000	5.6327	4.29	Q	.	.V	.	.	.	.
18.083	5.6614	4.17	Q	.	.V	.	.	.	.
18.167	5.6880	3.86	Q	.	.V	.	.	.	.
18.250	5.7124	3.53	Q	.	.V	.	.	.	.

BLDG2N.RES

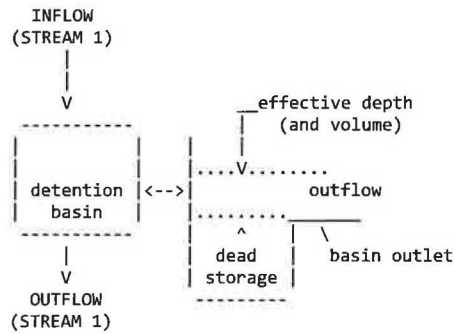
18.333	5.7357	3.38	. Q	.	.	.	V	.
18.417	5.7584	3.30	. Q	.	.	.	V	.
18.500	5.7807	3.24	. Q	.	.	.	V	.
18.583	5.8025	3.18	. Q	.	.	.	V	.
18.667	5.8240	3.12	. Q	.	.	.	V	.
18.750	5.8452	3.07	. Q	.	.	.	V	.
18.833	5.8660	3.02	. Q	.	.	.	V	.
18.917	5.8865	2.98	. Q	.	.	.	V	.
19.000	5.9067	2.93	. Q	.	.	.	V	.
19.083	5.9267	2.89	. Q	.	.	.	V	.
19.167	5.9463	2.85	. Q	.	.	.	V	.
19.250	5.9657	2.81	. Q	.	.	.	V	.
19.333	5.9848	2.78	. Q	.	.	.	V	.
19.417	6.0037	2.74	. Q	.	.	.	V	.
19.500	6.0223	2.71	. Q	.	.	.	V	.
19.583	6.0408	2.67	. Q	.	.	.	V	.
19.667	6.0589	2.64	. Q	.	.	.	V	.
19.750	6.0769	2.61	. Q	.	.	.	V	.
19.833	6.0947	2.58	. Q	.	.	.	V	.
19.917	6.1123	2.55	. Q	.	.	.	V	.
20.000	6.1297	2.53	. Q	.	.	.	V	.
20.083	6.1469	2.50	. Q	.	.	.	V	.
20.167	6.1640	2.47	. Q	.	.	.	V	.
20.250	6.1808	2.45	. Q	.	.	.	V	.
20.333	6.1975	2.42	. Q	.	.	.	V	.
20.417	6.2141	2.40	. Q	.	.	.	V	.
20.500	6.2304	2.38	. Q	.	.	.	V	.
20.583	6.2467	2.36	. Q	.	.	.	V	.
20.667	6.2627	2.33	. Q	.	.	.	V	.
20.750	6.2787	2.31	. Q	.	.	.	V	.
20.833	6.2944	2.29	. Q	.	.	.	V	.
20.917	6.3101	2.27	. Q	.	.	.	V	.
21.000	6.3256	2.25	. Q	.	.	.	V	.
21.083	6.3410	2.23	. Q	.	.	.	V	.
21.167	6.3563	2.22	. Q	.	.	.	V	.
21.250	6.3714	2.20	. Q	.	.	.	V	.
21.333	6.3864	2.18	. Q	.	.	.	V	.
21.417	6.4013	2.16	. Q	.	.	.	V	.
21.500	6.4161	2.15	. Q	.	.	.	V	.
21.583	6.4308	2.13	. Q	.	.	.	V	.
21.667	6.4453	2.11	. Q	.	.	.	V	.
21.750	6.4598	2.10	. Q	.	.	.	V	.
21.833	6.4741	2.08	. Q	.	.	.	V	.
21.917	6.4884	2.07	. Q	.	.	.	V	.
22.000	6.5025	2.05	. Q	.	.	.	V	.
22.083	6.5166	2.04	. Q	.	.	.	V	.
22.167	6.5305	2.03	. Q	.	.	.	V	.
22.250	6.5444	2.01	. Q	.	.	.	V	.
22.333	6.5581	2.00	. Q	.	.	.	V	.
22.417	6.5718	1.99	. Q	.	.	.	V	.
22.500	6.5854	1.97	. Q	.	.	.	V	.
22.583	6.5989	1.96	. Q	.	.	.	V	.
22.667	6.6123	1.95	. Q	.	.	.	V	.
22.750	6.6256	1.94	. Q	.	.	.	V	.
22.833	6.6389	1.92	. Q	.	.	.	V	.
22.917	6.6520	1.91	. Q	.	.	.	V	.
23.000	6.6651	1.90	. Q	.	.	.	V	.
23.083	6.6781	1.89	. Q	.	.	.	V	.
23.167	6.6911	1.88	. Q	.	.	.	V	.
23.250	6.7039	1.87	. Q	.	.	.	V	.
23.333	6.7167	1.86	. Q	.	.	.	V	.
23.417	6.7294	1.85	. Q	.	.	.	V	.
23.500	6.7421	1.84	. Q	.	.	.	V	.
23.583	6.7546	1.83	. Q	.	.	.	V	.
23.667	6.7671	1.82	. Q	.	.	.	V	.
23.750	6.7796	1.81	. Q	.	.	.	V	.
23.833	6.7920	1.80	. Q	.	.	.	V	.
23.917	6.8043	1.79	. Q	.	.	.	V	.
24.000	6.8165	1.78	. Q	.	.	.	V	.
24.083	6.8279	1.65	. Q	.	.	.	V	.
24.167	6.8348	1.01	. Q	.	.	.	V	.
24.250	6.8369	0.31	Q	.	.	.	V	.
24.333	6.8374	0.07	Q	.	.	.	V	.
24.417	6.8376	0.02	Q	.	.	.	V	.
24.500	6.8376	0.01	Q	.	.	.	V	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1470.0
10%	370.0
20%	70.0
30%	25.0
40%	20.0
50%	20.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 205.00 TO NODE 205.00 IS CODE = 3.1  
 >>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<  
 \*\*\*\*\*



ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1 THROUGH A FLOW-THROUGH DETENTION BASIN  
 SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 DEAD STORAGE(AF) = 0.000  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.000  
 SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000  
 DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.13	1.80	0.002
3	0.33	1.90	0.050
4	0.53	2.10	0.180
5	0.73	2.20	0.440
6	0.93	2.30	0.770
7	1.13	2.50	1.150
8	1.33	2.60	1.570
9	1.53	2.70	2.020
10	1.73	2.80	2.520
11	1.93	2.90	3.050
12	2.13	3.00	3.630

\*\*\*\*\*  
 MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):  
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;  
 MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	MEAN EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
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BLDG2N.RES

0.083	0.000	0.12	0.00	0.01	0.1	0.000
0.167	0.000	0.75	0.00	0.08	0.6	0.001
0.250	0.000	1.45	0.00	0.12	1.4	0.002
0.333	0.000	1.69	0.00	0.12	1.7	0.002
0.417	0.000	1.74	0.00	0.13	1.7	0.002
0.500	0.000	1.76	0.00	0.13	1.8	0.002
0.583	0.000	1.77	0.00	0.13	1.8	0.002
0.667	0.000	1.78	0.00	0.13	1.8	0.002
0.750	0.000	1.78	0.00	0.13	1.8	0.002
0.833	0.000	1.79	0.00	0.13	1.8	0.002
0.917	0.000	1.79	0.00	0.13	1.8	0.002
1.000	0.000	1.80	0.00	0.13	1.8	0.002
1.083	0.000	1.80	0.00	0.13	1.8	0.002
1.167	0.000	1.81	0.00	0.13	1.8	0.002
1.250	0.000	1.81	0.00	0.13	1.8	0.002
1.333	0.000	1.82	0.00	0.13	1.8	0.002
1.417	0.000	1.82	0.00	0.13	1.8	0.002
1.500	0.000	1.83	0.00	0.13	1.8	0.003
1.583	0.000	1.83	0.00	0.13	1.8	0.003
1.667	0.000	1.84	0.00	0.13	1.8	0.003
1.750	0.000	1.84	0.00	0.14	1.8	0.003
1.833	0.000	1.85	0.00	0.14	1.8	0.004
1.917	0.000	1.85	0.00	0.14	1.8	0.004
2.000	0.000	1.86	0.00	0.14	1.8	0.004
2.083	0.000	1.86	0.00	0.14	1.8	0.005
2.167	0.000	1.87	0.00	0.14	1.8	0.005
2.250	0.000	1.87	0.00	0.14	1.8	0.006
2.333	0.000	1.88	0.00	0.15	1.8	0.006
2.417	0.000	1.88	0.00	0.15	1.8	0.007
2.500	0.000	1.89	0.00	0.15	1.8	0.007
2.583	0.000	1.90	0.00	0.15	1.8	0.008
2.667	0.000	1.90	0.00	0.16	1.8	0.008
2.750	0.000	1.91	0.00	0.16	1.8	0.009
2.833	0.000	1.91	0.00	0.16	1.8	0.010
2.917	0.000	1.92	0.00	0.16	1.8	0.010
3.000	0.000	1.93	0.00	0.17	1.8	0.011
3.083	0.000	1.93	0.00	0.17	1.8	0.012
3.167	0.000	1.94	0.00	0.17	1.8	0.013
3.250	0.000	1.94	0.00	0.18	1.8	0.014
3.333	0.000	1.95	0.00	0.18	1.8	0.014
3.417	0.000	1.96	0.00	0.19	1.8	0.015
3.500	0.000	1.96	0.00	0.19	1.8	0.016
3.583	0.000	1.97	0.00	0.19	1.8	0.017
3.667	0.000	1.97	0.00	0.20	1.8	0.018
3.750	0.000	1.98	0.00	0.20	1.8	0.019
3.833	0.000	1.99	0.00	0.21	1.8	0.020
3.917	0.000	1.99	0.00	0.21	1.8	0.021
4.000	0.000	2.00	0.00	0.21	1.8	0.022
4.083	0.000	2.01	0.00	0.22	1.8	0.023
4.167	0.000	2.01	0.00	0.22	1.8	0.025
4.250	0.000	2.02	0.00	0.23	1.8	0.026
4.333	0.000	2.03	0.00	0.23	1.9	0.027
4.417	0.000	2.03	0.00	0.24	1.9	0.028
4.500	0.000	2.04	0.00	0.24	1.9	0.030
4.583	0.000	2.05	0.00	0.25	1.9	0.031
4.667	0.000	2.06	0.00	0.26	1.9	0.032
4.750	0.000	2.06	0.00	0.26	1.9	0.034
4.833	0.000	2.07	0.00	0.27	1.9	0.035
4.917	0.000	2.08	0.00	0.27	1.9	0.036
5.000	0.000	2.09	0.00	0.28	1.9	0.038
5.083	0.000	2.09	0.00	0.29	1.9	0.039
5.167	0.000	2.10	0.00	0.29	1.9	0.041
5.250	0.000	2.11	0.00	0.30	1.9	0.042
5.333	0.000	2.12	0.00	0.30	1.9	0.044
5.417	0.000	2.12	0.00	0.31	1.9	0.046
5.500	0.000	2.13	0.00	0.32	1.9	0.047
5.583	0.000	2.14	0.00	0.33	1.9	0.049
5.667	0.000	2.15	0.00	0.33	1.9	0.051
5.750	0.000	2.16	0.00	0.33	1.9	0.052
5.833	0.000	2.17	0.00	0.34	1.9	0.054
5.917	0.000	2.17	0.00	0.34	1.9	0.056
6.000	0.000	2.18	0.00	0.34	1.9	0.058
6.083	0.000	2.19	0.00	0.35	1.9	0.060
6.167	0.000	2.20	0.00	0.35	1.9	0.062
6.250	0.000	2.21	0.00	0.35	1.9	0.064
6.333	0.000	2.22	0.00	0.35	1.9	0.066

BLDG2N.RES

6.417	0.000	2.23	0.00	0.36	1.9	0.068
6.500	0.000	2.24	0.00	0.36	1.9	0.070
6.583	0.000	2.25	0.00	0.36	1.9	0.072
6.667	0.000	2.26	0.00	0.37	1.9	0.074
6.750	0.000	2.27	0.00	0.37	1.9	0.077
6.833	0.000	2.28	0.00	0.37	1.9	0.079
6.917	0.000	2.29	0.00	0.38	1.9	0.081
7.000	0.000	2.30	0.00	0.38	1.9	0.084
7.083	0.000	2.31	0.00	0.39	2.0	0.086
7.167	0.000	2.32	0.00	0.39	2.0	0.088
7.250	0.000	2.33	0.00	0.39	2.0	0.091
7.333	0.000	2.34	0.00	0.40	2.0	0.094
7.417	0.000	2.35	0.00	0.40	2.0	0.096
7.500	0.000	2.36	0.00	0.41	2.0	0.099
7.583	0.000	2.37	0.00	0.41	2.0	0.102
7.667	0.000	2.38	0.00	0.41	2.0	0.104
7.750	0.000	2.39	0.00	0.42	2.0	0.107
7.833	0.000	2.40	0.00	0.42	2.0	0.110
7.917	0.000	2.42	0.00	0.43	2.0	0.113
8.000	0.000	2.43	0.00	0.43	2.0	0.116
8.083	0.000	2.44	0.00	0.44	2.0	0.119
8.167	0.000	2.45	0.00	0.44	2.0	0.122
8.250	0.000	2.46	0.00	0.45	2.0	0.125
8.333	0.000	2.48	0.00	0.45	2.0	0.128
8.417	0.000	2.49	0.00	0.46	2.0	0.131
8.500	0.000	2.50	0.00	0.46	2.0	0.135
8.583	0.000	2.52	0.00	0.47	2.0	0.138
8.667	0.000	2.53	0.00	0.47	2.0	0.141
8.750	0.000	2.54	0.00	0.48	2.0	0.145
8.833	0.000	2.56	0.00	0.48	2.0	0.148
8.917	0.000	2.57	0.00	0.49	2.1	0.152
9.000	0.000	2.59	0.00	0.49	2.1	0.155
9.083	0.000	2.60	0.00	0.50	2.1	0.159
9.167	0.000	2.62	0.00	0.50	2.1	0.163
9.250	0.000	2.63	0.00	0.51	2.1	0.167
9.333	0.000	2.65	0.00	0.52	2.1	0.171
9.417	0.000	2.66	0.00	0.52	2.1	0.175
9.500	0.000	2.68	0.00	0.53	2.1	0.179
9.583	0.000	2.69	0.00	0.53	2.1	0.183
9.667	0.000	2.71	0.00	0.54	2.1	0.187
9.750	0.000	2.73	0.00	0.54	2.1	0.191
9.833	0.000	2.75	0.00	0.54	2.1	0.196
9.917	0.000	2.76	0.00	0.55	2.1	0.200
10.000	0.000	2.78	0.00	0.55	2.1	0.205
10.083	0.000	2.80	0.00	0.55	2.1	0.209
10.167	0.000	2.82	0.00	0.56	2.1	0.214
10.250	0.000	2.84	0.00	0.56	2.1	0.219
10.333	0.000	2.86	0.00	0.56	2.1	0.224
10.417	0.000	2.88	0.00	0.57	2.1	0.230
10.500	0.000	2.90	0.00	0.57	2.1	0.235
10.583	0.000	2.92	0.00	0.58	2.1	0.240
10.667	0.000	2.94	0.00	0.58	2.1	0.246
10.750	0.000	2.96	0.00	0.59	2.1	0.252
10.833	0.000	2.98	0.00	0.59	2.1	0.258
10.917	0.000	3.01	0.00	0.59	2.1	0.264
11.000	0.000	3.03	0.00	0.60	2.1	0.270
11.083	0.000	3.05	0.00	0.60	2.1	0.276
11.167	0.000	3.08	0.00	0.61	2.1	0.283
11.250	0.000	3.10	0.00	0.61	2.1	0.289
11.333	0.000	3.13	0.00	0.62	2.1	0.296
11.417	0.000	3.16	0.00	0.62	2.1	0.303
11.500	0.000	3.18	0.00	0.63	2.1	0.310
11.583	0.000	3.21	0.00	0.64	2.2	0.318
11.667	0.000	3.24	0.00	0.64	2.2	0.325
11.750	0.000	3.27	0.00	0.65	2.2	0.333
11.833	0.000	3.30	0.00	0.65	2.2	0.340
11.917	0.000	3.33	0.00	0.66	2.2	0.349
12.000	0.000	3.36	0.00	0.67	2.2	0.357
12.083	0.000	3.44	0.00	0.67	2.2	0.365
12.167	0.000	3.71	0.00	0.68	2.2	0.376
12.250	0.000	4.01	0.00	0.69	2.2	0.389
12.333	0.000	4.13	0.00	0.70	2.2	0.402
12.417	0.000	4.18	0.00	0.71	2.2	0.416
12.500	0.000	4.22	0.00	0.72	2.2	0.430
12.583	0.000	4.26	0.00	0.73	2.2	0.444
12.667	0.000	4.30	0.00	0.74	2.2	0.458
12.750	0.000	4.34	0.00	0.75	2.2	0.473

## BLDG2N.RES

12.833	0.000	4.38	0.00	0.76	2.2	0.488
12.917	0.000	4.43	0.00	0.77	2.2	0.503
13.000	0.000	4.47	0.00	0.78	2.2	0.519
13.083	0.000	4.52	0.00	0.79	2.2	0.535
13.167	0.000	4.57	0.00	0.80	2.2	0.551
13.250	0.000	4.62	0.00	0.81	2.2	0.567
13.333	0.000	4.67	0.00	0.82	2.2	0.584
13.417	0.000	4.72	0.00	0.83	2.2	0.601
13.500	0.000	4.78	0.00	0.84	2.3	0.618
13.583	0.000	4.84	0.00	0.85	2.3	0.636
13.667	0.000	4.90	0.00	0.86	2.3	0.654
13.750	0.000	4.96	0.00	0.87	2.3	0.673
13.833	0.000	5.03	0.00	0.88	2.3	0.692
13.917	0.000	5.10	0.00	0.89	2.3	0.711
14.000	0.000	5.17	0.00	0.91	2.3	0.731
14.083	0.000	5.24	0.00	0.92	2.3	0.751
14.167	0.000	5.24	0.00	0.93	2.3	0.771
14.250	0.000	5.24	0.00	0.94	2.3	0.792
14.333	0.000	5.30	0.00	0.95	2.3	0.812
14.417	0.000	5.40	0.00	0.96	2.3	0.833
14.500	0.000	5.50	0.00	0.97	2.3	0.855
14.583	0.000	5.62	0.00	0.99	2.4	0.878
14.667	0.000	5.74	0.00	1.00	2.4	0.901
14.750	0.000	5.87	0.00	1.01	2.4	0.925
14.833	0.000	6.02	0.00	1.02	2.4	0.950
14.917	0.000	6.18	0.00	1.04	2.4	0.976
15.000	0.000	6.35	0.00	1.05	2.4	1.003
15.083	0.000	6.54	0.00	1.07	2.4	1.031
15.167	0.000	6.76	0.00	1.08	2.4	1.061
15.250	0.000	6.99	0.00	1.10	2.5	1.092
15.333	0.000	7.27	0.00	1.12	2.5	1.125
15.417	0.000	7.43	0.00	1.13	2.5	1.159
15.500	0.000	6.94	0.00	1.15	2.5	1.190
15.583	0.000	6.42	0.00	1.16	2.5	1.217
15.667	0.000	6.65	0.00	1.18	2.5	1.245
15.750	0.000	7.25	0.00	1.19	2.5	1.278
15.833	0.000	8.08	0.00	1.21	2.5	1.316
15.917	0.000	9.40	0.00	1.23	2.5	1.363
16.000	0.000	12.12	0.00	1.26	2.6	1.429
16.083	0.000	19.33	0.00	1.32	2.6	1.544
16.167	0.000	35.25	0.00	1.42	2.6	1.769
16.250	0.000	34.52	0.00	1.52	2.7	1.988
16.333	0.000	17.82	0.00	1.56	2.7	2.092
16.417	0.000	9.87	0.00	1.58	2.7	2.142
16.500	0.000	8.06	0.00	1.59	2.7	2.178
16.583	0.000	7.74	0.00	1.61	2.7	2.213
16.667	0.000	7.26	0.00	1.62	2.7	2.244
16.750	0.000	6.74	0.00	1.63	2.7	2.272
16.833	0.000	6.32	0.00	1.64	2.8	2.296
16.917	0.000	6.00	0.00	1.65	2.8	2.318
17.000	0.000	5.72	0.00	1.66	2.8	2.339
17.083	0.000	5.50	0.00	1.67	2.8	2.358
17.167	0.000	5.37	0.00	1.67	2.8	2.376
17.250	0.000	5.28	0.00	1.68	2.8	2.393
17.333	0.000	5.15	0.00	1.69	2.8	2.409
17.417	0.000	5.01	0.00	1.69	2.8	2.424
17.500	0.000	4.88	0.00	1.70	2.8	2.439
17.583	0.000	4.76	0.00	1.70	2.8	2.453
17.667	0.000	4.66	0.00	1.71	2.8	2.465
17.750	0.000	4.55	0.00	1.71	2.8	2.478
17.833	0.000	4.46	0.00	1.72	2.8	2.489
17.917	0.000	4.37	0.00	1.72	2.8	2.500
18.000	0.000	4.29	0.00	1.73	2.8	2.510
18.083	0.000	4.17	0.00	1.73	2.8	2.520
18.167	0.000	3.86	0.00	1.73	2.8	2.527
18.250	0.000	3.53	0.00	1.73	2.8	2.532
18.333	0.000	3.38	0.00	1.74	2.8	2.536
18.417	0.000	3.30	0.00	1.74	2.8	2.540
18.500	0.000	3.24	0.00	1.74	2.8	2.542
18.583	0.000	3.18	0.00	1.74	2.8	2.545
18.667	0.000	3.12	0.00	1.74	2.8	2.547
18.750	0.000	3.07	0.00	1.74	2.8	2.549
18.833	0.000	3.02	0.00	1.74	2.8	2.551
18.917	0.000	2.98	0.00	1.74	2.8	2.552
19.000	0.000	2.93	0.00	1.74	2.8	2.553
19.083	0.000	2.89	0.00	1.74	2.8	2.553
19.167	0.000	2.85	0.00	1.74	2.8	2.554

				BLDG2N.RES		
19.250	0.000	2.81	0.00	1.74	2.8	2.554
19.333	0.000	2.78	0.00	1.74	2.8	2.553
19.417	0.000	2.74	0.00	1.74	2.8	2.553
19.500	0.000	2.71	0.00	1.74	2.8	2.552
19.583	0.000	2.67	0.00	1.74	2.8	2.551
19.667	0.000	2.64	0.00	1.74	2.8	2.550
19.750	0.000	2.61	0.00	1.74	2.8	2.549
19.833	0.000	2.58	0.00	1.74	2.8	2.547
19.917	0.000	2.55	0.00	1.74	2.8	2.546
20.000	0.000	2.53	0.00	1.74	2.8	2.544
20.083	0.000	2.50	0.00	1.74	2.8	2.542
20.167	0.000	2.47	0.00	1.74	2.8	2.539
20.250	0.000	2.45	0.00	1.74	2.8	2.537
20.333	0.000	2.42	0.00	1.74	2.8	2.534
20.417	0.000	2.40	0.00	1.73	2.8	2.532
20.500	0.000	2.38	0.00	1.73	2.8	2.529
20.583	0.000	2.36	0.00	1.73	2.8	2.526
20.667	0.000	2.33	0.00	1.73	2.8	2.522
20.750	0.000	2.31	0.00	1.73	2.8	2.519
20.833	0.000	2.29	0.00	1.73	2.8	2.515
20.917	0.000	2.27	0.00	1.73	2.8	2.512
21.000	0.000	2.25	0.00	1.73	2.8	2.508
21.083	0.000	2.23	0.00	1.72	2.8	2.504
21.167	0.000	2.22	0.00	1.72	2.8	2.500
21.250	0.000	2.20	0.00	1.72	2.8	2.496
21.333	0.000	2.18	0.00	1.72	2.8	2.492
21.417	0.000	2.16	0.00	1.72	2.8	2.488
21.500	0.000	2.15	0.00	1.72	2.8	2.483
21.583	0.000	2.13	0.00	1.71	2.8	2.479
21.667	0.000	2.11	0.00	1.71	2.8	2.474
21.750	0.000	2.10	0.00	1.71	2.8	2.469
21.833	0.000	2.08	0.00	1.71	2.8	2.464
21.917	0.000	2.07	0.00	1.71	2.8	2.459
22.000	0.000	2.05	0.00	1.70	2.8	2.454
22.083	0.000	2.04	0.00	1.70	2.8	2.449
22.167	0.000	2.03	0.00	1.70	2.8	2.444
22.250	0.000	2.01	0.00	1.70	2.8	2.439
22.333	0.000	2.00	0.00	1.70	2.8	2.433
22.417	0.000	1.99	0.00	1.69	2.8	2.428
22.500	0.000	1.97	0.00	1.69	2.8	2.422
22.583	0.000	1.96	0.00	1.69	2.8	2.416
22.667	0.000	1.95	0.00	1.69	2.8	2.411
22.750	0.000	1.94	0.00	1.68	2.8	2.405
22.833	0.000	1.92	0.00	1.68	2.8	2.399
22.917	0.000	1.91	0.00	1.68	2.8	2.393
23.000	0.000	1.90	0.00	1.68	2.8	2.387
23.083	0.000	1.89	0.00	1.67	2.8	2.381
23.167	0.000	1.88	0.00	1.67	2.8	2.375
23.250	0.000	1.87	0.00	1.67	2.8	2.369
23.333	0.000	1.86	0.00	1.67	2.8	2.362
23.417	0.000	1.85	0.00	1.66	2.8	2.356
23.500	0.000	1.84	0.00	1.66	2.8	2.350
23.583	0.000	1.83	0.00	1.66	2.8	2.343
23.667	0.000	1.82	0.00	1.66	2.8	2.337
23.750	0.000	1.81	0.00	1.65	2.8	2.330
23.833	0.000	1.80	0.00	1.65	2.8	2.323
23.917	0.000	1.79	0.00	1.65	2.8	2.317

←  $Q_{100}(\text{DISCHARGE}) = 2.8 \text{ CFS}$   
 PONDING VOLUME = 1.74 FT  
 VOLUME STORED = 2.554 AC-FT

-----  
 PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 6.838 AF  
 BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)  
 OUTFLOW VOLUME = 6.839 AF  
 LOSS VOLUME = 0.000 AF  
 =====

END OF FLOODSCX ROUTING ANALYSIS

▲

Job #3654 Grove Business Center, Ontario  
 Volume in Building 2 South Truck Yard, Node 216

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
661.45	0.00	0	249	249	0.01	2.9
661.60	0.15	3320	2082	2331	0.05	3.1
661.80	0.35	17500	5518	7849	0.18	3.3
662.00	0.55	37680	9015	16864	0.39	3.5
662.20	0.75	52470	11321	28185	0.65	3.7
662.40	0.95	60740	12994	41179	0.95	3.9
662.60	1.15	69200	14707	55886	1.28	4.1
662.80	1.35	77870	16465	72351	1.66	4.3
663.00	1.55	86780	18280	90631	2.08	4.4
663.20	1.75	96020	20054	110685	2.54	4.5
663.40	1.95	104520	5283	115968	2.66	4.6
663.45	2.00	106800				



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FLOOD ROUTING ANALYSIS  
 USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* 100-YEAR DETENTION \*  
 \* BUILDING 2 SOUTH TRUCK YARD, NODE 218 \*  
 \*\*\*\*\*

FILE NAME: W:\3654\BLDG2S.DAT  
 TIME/DATE OF STUDY: 23:13 12/12/2020

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 216.00 TO NODE 216.00 IS CODE = 1

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 >>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<  
 =====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 15.550 ACRES  
 BASEFLOW = 0.000 CFS/SQUARE-MILE  
 \*USER ENTERED "LAG" TIME = 0.163 HOURS  
 CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.  
 THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)  
 MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.  
 VALLEY(DEVELOPED) S-GRAPH SELECTED  
 MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 \*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL(INCH)= 0.37  
 SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)= 0.75  
 SPECIFIED PEAK 1-HOUR RAINFALL(INCH) = 1.00  
 SPECIFIED PEAK 3-HOUR RAINFALL(INCH) = 1.90  
 SPECIFIED PEAK 6-HOUR RAINFALL(INCH) = 2.90  
 SPECIFIED PEAK 24-HOUR RAINFALL(INCH) = 5.90

PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
 5-MINUTE FACTOR = 0.999  
 30-MINUTE FACTOR = 0.999  
 1-HOUR FACTOR = 0.999  
 3-HOUR FACTOR = 1.000  
 6-HOUR FACTOR = 1.000  
 24-HOUR FACTOR = 1.000

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
 UNIT INTERVAL PERCENTAGE OF LAG-TIME = 51.125

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 UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES(CFS)
1	4.647	8.740
2	30.956	49.476
3	69.827	73.100
4	90.710	39.272
5	97.352	12.491
6	98.866	2.846

BLDG2S.RES

7	99.501	1.194
8	99.800	0.563
9	99.950	0.282
10	100.000	0.094

\*\*\*\*\*

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118

## BLDG2S.RES

66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185

BLDG25.RES

143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0300
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0350	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0345
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0345
187	0.0423	0.0033	0.0390
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3697	0.0035	0.3662
194	0.0685	0.0035	0.0650
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0333
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0304
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182

BLDG2S.RES

220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90  
 TOTAL SOIL-LOSS(INCHES) = 0.43  
 TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

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 TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.5531  
 TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 7.0884

↑

2 4 - H O U R   S T O R M  
R U N O F F   H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	10.0	20.0	30.0	40.0
0.083	0.0006	0.08	Q	.	.	.	.
0.167	0.0045	0.56	Q	.	.	.	.
0.250	0.0132	1.27	VQ	.	.	.	.
0.333	0.0246	1.65	VQ	.	.	.	.
0.417	0.0369	1.78	VQ	.	.	.	.
0.500	0.0493	1.81	VQ	.	.	.	.
0.583	0.0619	1.83	VQ	.	.	.	.
0.667	0.0746	1.84	VQ	.	.	.	.
0.750	0.0873	1.85	VQ	.	.	.	.
0.833	0.1001	1.85	VQ	.	.	.	.
0.917	0.1128	1.86	VQ	.	.	.	.
1.000	0.1257	1.86	VQ	.	.	.	.
1.083	0.1385	1.87	VQ	.	.	.	.
1.167	0.1514	1.87	VQ	.	.	.	.
1.250	0.1643	1.88	VQ	.	.	.	.
1.333	0.1773	1.88	.Q	.	.	.	.
1.417	0.1903	1.89	.Q	.	.	.	.
1.500	0.2033	1.89	.Q	.	.	.	.
1.583	0.2164	1.90	.Q	.	.	.	.
1.667	0.2295	1.90	.Q	.	.	.	.
1.750	0.2426	1.91	.Q	.	.	.	.
1.833	0.2558	1.91	.Q	.	.	.	.
1.917	0.2690	1.92	.Q	.	.	.	.
2.000	0.2823	1.92	.Q	.	.	.	.
2.083	0.2955	1.93	.Q	.	.	.	.
2.167	0.3089	1.94	.Q	.	.	.	.
2.250	0.3222	1.94	.Q	.	.	.	.
2.333	0.3356	1.95	.Q	.	.	.	.
2.417	0.3491	1.95	.Q	.	.	.	.
2.500	0.3626	1.96	.QV	.	.	.	.
2.583	0.3761	1.96	.QV	.	.	.	.
2.667	0.3897	1.97	.QV	.	.	.	.
2.750	0.4033	1.98	.QV	.	.	.	.
2.833	0.4169	1.98	.QV	.	.	.	.
2.917	0.4306	1.99	.QV	.	.	.	.
3.000	0.4443	1.99	.QV	.	.	.	.
3.083	0.4581	2.00	.QV	.	.	.	.
3.167	0.4719	2.01	.Q	.	.	.	.
3.250	0.4858	2.01	.Q	.	.	.	.
3.333	0.4997	2.02	.Q	.	.	.	.
3.417	0.5136	2.02	.Q	.	.	.	.
3.500	0.5276	2.03	.Q	.	.	.	.
3.583	0.5416	2.04	.QV	.	.	.	.
3.667	0.5557	2.04	.QV	.	.	.	.
3.750	0.5698	2.05	.QV	.	.	.	.
3.833	0.5840	2.06	.QV	.	.	.	.
3.917	0.5982	2.06	.QV	.	.	.	.
4.000	0.6125	2.07	.QV	.	.	.	.
4.083	0.6268	2.08	.QV	.	.	.	.
4.167	0.6412	2.09	.QV	.	.	.	.
4.250	0.6556	2.09	.QV	.	.	.	.
4.333	0.6700	2.10	.QV	.	.	.	.
4.417	0.6846	2.11	.QV	.	.	.	.
4.500	0.6991	2.11	.QV	.	.	.	.
4.583	0.7137	2.12	.Q V	.	.	.	.
4.667	0.7284	2.13	.Q V	.	.	.	.
4.750	0.7431	2.14	.Q V	.	.	.	.
4.833	0.7579	2.14	.Q V	.	.	.	.
4.917	0.7727	2.15	.Q V	.	.	.	.
5.000	0.7875	2.16	.Q V	.	.	.	.
5.083	0.8025	2.17	.Q V	.	.	.	.
5.167	0.8175	2.17	.Q V	.	.	.	.
5.250	0.8325	2.18	.Q V	.	.	.	.
5.333	0.8476	2.19	.Q V	.	.	.	.

BLDG25.RES

5.417	0.8627	2.20	. Q V	.	.	.	.
5.500	0.8779	2.21	. Q V	.	.	.	.
5.583	0.8932	2.22	. Q V	.	.	.	.
5.667	0.9085	2.22	. Q V	.	.	.	.
5.750	0.9239	2.23	. Q V	.	.	.	.
5.833	0.9393	2.24	. Q V	.	.	.	.
5.917	0.9548	2.25	. Q V	.	.	.	.
6.000	0.9704	2.26	. Q V	.	.	.	.
6.083	0.9860	2.27	. Q V	.	.	.	.
6.167	1.0017	2.28	. Q V	.	.	.	.
6.250	1.0175	2.29	. Q V	.	.	.	.
6.333	1.0333	2.30	. Q V	.	.	.	.
6.417	1.0492	2.31	. Q V	.	.	.	.
6.500	1.0651	2.32	. Q V	.	.	.	.
6.583	1.0811	2.33	. Q V	.	.	.	.
6.667	1.0972	2.33	. Q V	.	.	.	.
6.750	1.1133	2.35	. Q V	.	.	.	.
6.833	1.1296	2.36	. Q V	.	.	.	.
6.917	1.1459	2.37	. Q V	.	.	.	.
7.000	1.1622	2.38	. Q V	.	.	.	.
7.083	1.1786	2.39	. Q V	.	.	.	.
7.167	1.1952	2.40	. Q V	.	.	.	.
7.250	1.2117	2.41	. Q V	.	.	.	.
7.333	1.2284	2.42	. Q V	.	.	.	.
7.417	1.2451	2.43	. Q V	.	.	.	.
7.500	1.2619	2.44	. Q V	.	.	.	.
7.583	1.2788	2.45	. Q V	.	.	.	.
7.667	1.2958	2.46	. Q V	.	.	.	.
7.750	1.3128	2.48	. Q V	.	.	.	.
7.833	1.3300	2.49	. Q V	.	.	.	.
7.917	1.3472	2.50	. Q V	.	.	.	.
8.000	1.3645	2.51	. Q V	.	.	.	.
8.083	1.3819	2.52	. Q V	.	.	.	.
8.167	1.3994	2.54	. Q V	.	.	.	.
8.250	1.4169	2.55	. Q V	.	.	.	.
8.333	1.4346	2.56	. Q V	.	.	.	.
8.417	1.4523	2.58	. Q V	.	.	.	.
8.500	1.4702	2.59	. Q V	.	.	.	.
8.583	1.4881	2.60	. Q V	.	.	.	.
8.667	1.5061	2.62	. Q V	.	.	.	.
8.750	1.5242	2.63	. Q V	.	.	.	.
8.833	1.5425	2.65	. Q V	.	.	.	.
8.917	1.5608	2.66	. Q V	.	.	.	.
9.000	1.5792	2.68	. Q V	.	.	.	.
9.083	1.5977	2.69	. Q V	.	.	.	.
9.167	1.6164	2.71	. Q V	.	.	.	.
9.250	1.6351	2.72	. Q V	.	.	.	.
9.333	1.6540	2.74	. Q V	.	.	.	.
9.417	1.6730	2.75	. Q V	.	.	.	.
9.500	1.6920	2.77	. Q V	.	.	.	.
9.583	1.7112	2.79	. Q V	.	.	.	.
9.667	1.7306	2.80	. Q V	.	.	.	.
9.750	1.7500	2.82	. Q V	.	.	.	.
9.833	1.7695	2.84	. Q V	.	.	.	.
9.917	1.7892	2.86	. Q V	.	.	.	.
10.000	1.8090	2.88	. Q V	.	.	.	.
10.083	1.8290	2.90	. Q V	.	.	.	.
10.167	1.8491	2.91	. Q V	.	.	.	.
10.250	1.8693	2.93	. Q V	.	.	.	.
10.333	1.8896	2.95	. Q V	.	.	.	.
10.417	1.9101	2.98	. Q V	.	.	.	.
10.500	1.9308	3.00	. Q V	.	.	.	.
10.583	1.9515	3.02	. Q .V	.	.	.	.
10.667	1.9725	3.04	. Q .V	.	.	.	.
10.750	1.9936	3.06	. Q .V	.	.	.	.
10.833	2.0148	3.09	. Q .V	.	.	.	.
10.917	2.0362	3.11	. Q .V	.	.	.	.
11.000	2.0578	3.13	. Q .V	.	.	.	.
11.083	2.0795	3.16	. Q .V	.	.	.	.
11.167	2.1015	3.18	. Q .V	.	.	.	.
11.250	2.1236	3.21	. Q .V	.	.	.	.
11.333	2.1458	3.23	. Q .V	.	.	.	.
11.417	2.1683	3.26	. Q .V	.	.	.	.
11.500	2.1909	3.29	. Q .V	.	.	.	.
11.583	2.2138	3.32	. Q .V	.	.	.	.
11.667	2.2369	3.35	. Q .V	.	.	.	.
11.750	2.2601	3.38	. Q .V	.	.	.	.

BLDG2S.RES

11.833	2.2836	3.41	Q	V	.	.	.	.	.	.
11.917	2.3073	3.44	Q	V	.	.	.	.	.	.
12.000	2.3312	3.47	Q	V	.	.	.	.	.	.
12.083	2.3556	3.54	Q	V	.	.	.	.	.	.
12.167	2.3814	3.75	Q	V	.	.	.	.	.	.
12.250	2.4093	4.05	Q	V	.	.	.	.	.	.
12.333	2.4385	4.23	Q	V	.	.	.	.	.	.
12.417	2.4682	4.31	Q	V	.	.	.	.	.	.
12.500	2.4982	4.36	Q	V	.	.	.	.	.	.
12.583	2.5285	4.40	Q	V	.	.	.	.	.	.
12.667	2.5592	4.45	Q	V	.	.	.	.	.	.
12.750	2.5901	4.49	Q	V	.	.	.	.	.	.
12.833	2.6213	4.53	Q	V	.	.	.	.	.	.
12.917	2.6528	4.57	Q	V	.	.	.	.	.	.
13.000	2.6846	4.62	Q	V	.	.	.	.	.	.
13.083	2.7167	4.67	Q	V	.	.	.	.	.	.
13.167	2.7492	4.72	Q	V	.	.	.	.	.	.
13.250	2.7820	4.77	Q	V	.	.	.	.	.	.
13.333	2.8152	4.82	Q	V	.	.	.	.	.	.
13.417	2.8488	4.87	Q	V	.	.	.	.	.	.
13.500	2.8828	4.93	Q	V	.	.	.	.	.	.
13.583	2.9172	4.99	Q	V	.	.	.	.	.	.
13.667	2.9520	5.05	Q	V	.	.	.	.	.	.
13.750	2.9872	5.12	Q	V	.	.	.	.	.	.
13.833	3.0230	5.19	Q	V	.	.	.	.	.	.
13.917	3.0592	5.26	Q	V	.	.	.	.	.	.
14.000	3.0959	5.34	Q	V	.	.	.	.	.	.
14.083	3.1331	5.40	Q	V	.	.	.	.	.	.
14.167	3.1705	5.43	Q	V	.	.	.	.	.	.
14.250	3.2079	5.43	Q	V	.	.	.	.	.	.
14.333	3.2456	5.47	Q	V	.	.	.	.	.	.
14.417	3.2839	5.56	Q	V	.	.	.	.	.	.
14.500	3.3229	5.67	Q	V	.	.	.	.	.	.
14.583	3.3628	5.78	Q	V	.	.	.	.	.	.
14.667	3.4034	5.91	Q	V	.	.	.	.	.	.
14.750	3.4450	6.04	Q	V	.	.	.	.	.	.
14.833	3.4877	6.19	Q	V	.	.	.	.	.	.
14.917	3.5314	6.35	Q	V	.	.	.	.	.	.
15.000	3.5763	6.52	Q	V	.	.	.	.	.	.
15.083	3.6226	6.72	Q	V	.	.	.	.	.	.
15.167	3.6703	6.93	Q	V	.	.	.	.	.	.
15.250	3.7197	7.17	Q	V	.	.	.	.	.	.
15.333	3.7709	7.44	Q	.V	.	.	.	.	.	.
15.417	3.8235	7.64	Q	.V	.	.	.	.	.	.
15.500	3.8742	7.36	Q	.V	.	.	.	.	.	.
15.583	3.9212	6.82	Q	.V	.	.	.	.	.	.
15.667	3.9683	6.83	Q	.V	.	.	.	.	.	.
15.750	4.0187	7.32	Q	.V	.	.	.	.	.	.
15.833	4.0745	8.10	Q	.V	.	.	.	.	.	.
15.917	4.1385	9.30	Q	.V	.	.	.	.	.	.
16.000	4.2186	11.64	Q	.V	.	.	.	.	.	.
16.083	4.3402	17.66	Q	V	.	.	.	.	.	.
16.167	4.5539	31.02	Q	V	.	.	.	.	.	.
16.250	4.8023	36.08	Q	V	.	.	.	.	.	.
16.333	4.9640	23.47	Q	V	.	.	.	.	.	.
16.417	5.0546	13.15	Q	V	.	.	.	.	.	.
16.500	5.1171	9.08	Q	V	.	.	.	.	.	.
16.583	5.1742	8.29	Q	V	.	.	.	.	.	.
16.667	5.2276	7.76	Q	V	.	.	.	.	.	.
16.750	5.2774	7.22	Q	V	.	.	.	.	.	.
16.833	5.3237	6.73	Q	V	.	.	.	.	.	.
16.917	5.3673	6.33	Q	V	.	.	.	.	.	.
17.000	5.4088	6.03	Q	V	.	.	.	.	.	.
17.083	5.4487	5.78	Q	V	.	.	.	.	.	.
17.167	5.4873	5.62	Q	V	.	.	.	.	.	.
17.250	5.5253	5.51	Q	.V	.	.	.	.	.	.
17.333	5.5623	5.38	Q	.V	.	.	.	.	.	.
17.417	5.5985	5.24	Q	.V	.	.	.	.	.	.
17.500	5.6336	5.11	Q	.V	.	.	.	.	.	.
17.583	5.6679	4.98	Q	.V	.	.	.	.	.	.
17.667	5.7015	4.87	Q	.V	.	.	.	.	.	.
17.750	5.7342	4.76	Q	.V	.	.	.	.	.	.
17.833	5.7663	4.66	Q	.V	.	.	.	.	.	.
17.917	5.7978	4.57	Q	.V	.	.	.	.	.	.
18.000	5.8286	4.48	Q	.V	.	.	.	.	.	.
18.083	5.8587	4.37	Q	.V	.	.	.	.	.	.
18.167	5.8870	4.11	Q	.V	.	.	.	.	.	.



BLDG2S.RES

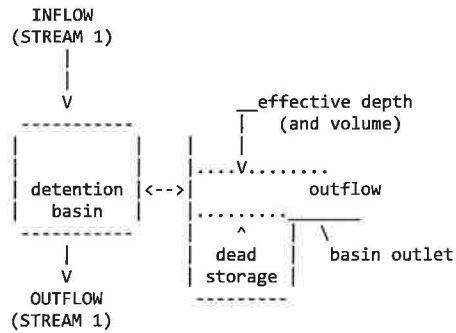
18.250	5.9130	3.78	. Q	.	.	.	V	.
18.333	5.9376	3.56	. Q	.	.	.	V	.
18.417	5.9613	3.45	. Q	.	.	.	V	.
18.500	5.9846	3.38	. Q	.	.	.	V	.
18.583	6.0075	3.32	. Q	.	.	.	V	.
18.667	6.0299	3.26	. Q	.	.	.	V	.
18.750	6.0520	3.20	. Q	.	.	.	V	.
18.833	6.0737	3.15	. Q	.	.	.	V	.
18.917	6.0950	3.10	. Q	.	.	.	V	.
19.000	6.1161	3.06	. Q	.	.	.	V	.
19.083	6.1368	3.01	. Q	.	.	.	V	.
19.167	6.1573	2.97	. Q	.	.	.	V	.
19.250	6.1775	2.93	. Q	.	.	.	V	.
19.333	6.1974	2.89	. Q	.	.	.	V	.
19.417	6.2171	2.85	. Q	.	.	.	V	.
19.500	6.2365	2.82	. Q	.	.	.	V	.
19.583	6.2557	2.78	. Q	.	.	.	V	.
19.667	6.2746	2.75	. Q	.	.	.	V	.
19.750	6.2933	2.72	. Q	.	.	.	V	.
19.833	6.3118	2.69	. Q	.	.	.	V	.
19.917	6.3301	2.66	. Q	.	.	.	V	.
20.000	6.3482	2.63	. Q	.	.	.	V	.
20.083	6.3662	2.60	. Q	.	.	.	V	.
20.167	6.3839	2.57	. Q	.	.	.	V	.
20.250	6.4014	2.55	. Q	.	.	.	V	.
20.333	6.4188	2.52	. Q	.	.	.	V	.
20.417	6.4360	2.50	. Q	.	.	.	V	.
20.500	6.4530	2.47	. Q	.	.	.	V	.
20.583	6.4699	2.45	. Q	.	.	.	V	.
20.667	6.4866	2.43	. Q	.	.	.	V	.
20.750	6.5032	2.41	. Q	.	.	.	V	.
20.833	6.5196	2.38	. Q	.	.	.	V	.
20.917	6.5359	2.36	. Q	.	.	.	V	.
21.000	6.5520	2.34	. Q	.	.	.	V	.
21.083	6.5680	2.32	. Q	.	.	.	V	.
21.167	6.5839	2.30	. Q	.	.	.	V	.
21.250	6.5996	2.28	. Q	.	.	.	V	.
21.333	6.6152	2.27	. Q	.	.	.	V	.
21.417	6.6307	2.25	. Q	.	.	.	V	.
21.500	6.6461	2.23	. Q	.	.	.	V	.
21.583	6.6613	2.21	. Q	.	.	.	V	.
21.667	6.6764	2.20	. Q	.	.	.	V	.
21.750	6.6915	2.18	. Q	.	.	.	V	.
21.833	6.7064	2.17	. Q	.	.	.	V	.
21.917	6.7212	2.15	. Q	.	.	.	V	.
22.000	6.7359	2.13	. Q	.	.	.	V	.
22.083	6.7505	2.12	. Q	.	.	.	V	.
22.167	6.7650	2.10	. Q	.	.	.	V	.
22.250	6.7794	2.09	. Q	.	.	.	V	.
22.333	6.7937	2.08	. Q	.	.	.	V	.
22.417	6.8079	2.06	. Q	.	.	.	V	.
22.500	6.8220	2.05	. Q	.	.	.	V	.
22.583	6.8360	2.04	. Q	.	.	.	V	.
22.667	6.8500	2.02	. Q	.	.	.	V	.
22.750	6.8638	2.01	. Q	.	.	.	V	.
22.833	6.8776	2.00	. Q	.	.	.	V	.
22.917	6.8912	1.99	. Q	.	.	.	V	.
23.000	6.9048	1.97	. Q	.	.	.	V	.
23.083	6.9184	1.96	. Q	.	.	.	V	.
23.167	6.9318	1.95	. Q	.	.	.	V	.
23.250	6.9451	1.94	. Q	.	.	.	V	.
23.333	6.9584	1.93	. Q	.	.	.	V	.
23.417	6.9716	1.92	. Q	.	.	.	V	.
23.500	6.9848	1.91	. Q	.	.	.	V	.
23.583	6.9978	1.90	. Q	.	.	.	V	.
23.667	7.0108	1.89	. Q	.	.	.	V	.
23.750	7.0237	1.88	. Q	.	.	.	V	.
23.833	7.0366	1.87	. Q	.	.	.	V	.
23.917	7.0493	1.86	. Q	.	.	.	V	.
24.000	7.0621	1.85	. Q	.	.	.	V	.
24.083	7.0741	1.75	. Q	.	.	.	V	.
24.167	7.0828	1.26	. Q	.	.	.	V	.
24.250	7.0866	0.55	Q	.	.	.	V	.
24.333	7.0878	0.17	Q	.	.	.	V	.
24.417	7.0881	0.05	Q	.	.	.	V	.
24.500	7.0883	0.02	Q	.	.	.	V	.
24.583	7.0883	0.01	Q	.	.	.	V	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	370.0
20%	80.0
30%	30.0
40%	20.0
50%	15.0
60%	15.0
70%	10.0
80%	10.0
90%	5.0

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 216.00 TO NODE 216.00 IS CODE = 3.1

>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<



ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1  
 THROUGH A FLOW-THROUGH DETENTION BASIN  
 SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 DEAD STORAGE(AF) = 0.000  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.000  
 SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000  
 DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.15	2.90	0.010
3	0.35	3.10	0.050
4	0.55	3.30	0.180
5	0.75	3.50	0.390
6	0.95	3.70	0.650
7	1.15	3.90	0.950
8	1.35	4.10	1.280
9	1.55	4.30	1.660
10	1.75	4.40	2.080
11	1.95	4.50	2.540
12	2.00	4.60	2.660

MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):  
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;  
 MEAN OUTFLOW is the average value during the unit interval.)

CLOCK

MEAN

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	BLDG2S.RES		EFFECTIVE VOLUME(AF)
				EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	
0.083	0.000	0.08	0.00	0.00	0.0	0.000
0.167	0.000	0.56	0.00	0.03	0.3	0.002
0.250	0.000	1.27	0.00	0.07	0.9	0.004
0.333	0.000	1.65	0.00	0.09	1.5	0.006
0.417	0.000	1.78	0.00	0.09	1.7	0.006
0.500	0.000	1.81	0.00	0.09	1.8	0.006
0.583	0.000	1.83	0.00	0.09	1.8	0.006
0.667	0.000	1.84	0.00	0.10	1.8	0.006
0.750	0.000	1.85	0.00	0.10	1.8	0.006
0.833	0.000	1.85	0.00	0.10	1.8	0.006
0.917	0.000	1.86	0.00	0.10	1.9	0.006
1.000	0.000	1.86	0.00	0.10	1.9	0.006
1.083	0.000	1.87	0.00	0.10	1.9	0.006
1.167	0.000	1.87	0.00	0.10	1.9	0.006
1.250	0.000	1.88	0.00	0.10	1.9	0.006
1.333	0.000	1.88	0.00	0.10	1.9	0.006
1.417	0.000	1.89	0.00	0.10	1.9	0.007
1.500	0.000	1.89	0.00	0.10	1.9	0.007
1.583	0.000	1.90	0.00	0.10	1.9	0.007
1.667	0.000	1.90	0.00	0.10	1.9	0.007
1.750	0.000	1.91	0.00	0.10	1.9	0.007
1.833	0.000	1.91	0.00	0.10	1.9	0.007
1.917	0.000	1.92	0.00	0.10	1.9	0.007
2.000	0.000	1.92	0.00	0.10	1.9	0.007
2.083	0.000	1.93	0.00	0.10	1.9	0.007
2.167	0.000	1.94	0.00	0.10	1.9	0.007
2.250	0.000	1.94	0.00	0.10	1.9	0.007
2.333	0.000	1.95	0.00	0.10	1.9	0.007
2.417	0.000	1.95	0.00	0.10	1.9	0.007
2.500	0.000	1.96	0.00	0.10	2.0	0.007
2.583	0.000	1.96	0.00	0.10	2.0	0.007
2.667	0.000	1.97	0.00	0.10	2.0	0.007
2.750	0.000	1.98	0.00	0.10	2.0	0.007
2.833	0.000	1.98	0.00	0.10	2.0	0.007
2.917	0.000	1.99	0.00	0.10	2.0	0.007
3.000	0.000	1.99	0.00	0.10	2.0	0.007
3.083	0.000	2.00	0.00	0.10	2.0	0.007
3.167	0.000	2.01	0.00	0.10	2.0	0.007
3.250	0.000	2.01	0.00	0.10	2.0	0.007
3.333	0.000	2.02	0.00	0.10	2.0	0.007
3.417	0.000	2.02	0.00	0.10	2.0	0.007
3.500	0.000	2.03	0.00	0.11	2.0	0.007
3.583	0.000	2.04	0.00	0.11	2.0	0.007
3.667	0.000	2.04	0.00	0.11	2.0	0.007
3.750	0.000	2.05	0.00	0.11	2.0	0.007
3.833	0.000	2.06	0.00	0.11	2.1	0.007
3.917	0.000	2.06	0.00	0.11	2.1	0.007
4.000	0.000	2.07	0.00	0.11	2.1	0.007
4.083	0.000	2.08	0.00	0.11	2.1	0.007
4.167	0.000	2.09	0.00	0.11	2.1	0.007
4.250	0.000	2.09	0.00	0.11	2.1	0.007
4.333	0.000	2.10	0.00	0.11	2.1	0.007
4.417	0.000	2.11	0.00	0.11	2.1	0.007
4.500	0.000	2.11	0.00	0.11	2.1	0.007
4.583	0.000	2.12	0.00	0.11	2.1	0.007
4.667	0.000	2.13	0.00	0.11	2.1	0.007
4.750	0.000	2.14	0.00	0.11	2.1	0.007
4.833	0.000	2.14	0.00	0.11	2.1	0.007
4.917	0.000	2.15	0.00	0.11	2.1	0.007
5.000	0.000	2.16	0.00	0.11	2.2	0.007
5.083	0.000	2.17	0.00	0.11	2.2	0.007
5.167	0.000	2.17	0.00	0.11	2.2	0.007
5.250	0.000	2.18	0.00	0.11	2.2	0.008
5.333	0.000	2.19	0.00	0.11	2.2	0.008
5.417	0.000	2.20	0.00	0.11	2.2	0.008
5.500	0.000	2.21	0.00	0.11	2.2	0.008
5.583	0.000	2.22	0.00	0.11	2.2	0.008
5.667	0.000	2.22	0.00	0.12	2.2	0.008
5.750	0.000	2.23	0.00	0.12	2.2	0.008
5.833	0.000	2.24	0.00	0.12	2.2	0.008
5.917	0.000	2.25	0.00	0.12	2.2	0.008
6.000	0.000	2.26	0.00	0.12	2.3	0.008
6.083	0.000	2.27	0.00	0.12	2.3	0.008
6.167	0.000	2.28	0.00	0.12	2.3	0.008

BLDG2S.RES

6.250	0.000	2.29	0.00	0.12	2.3	0.008
6.333	0.000	2.30	0.00	0.12	2.3	0.008
6.417	0.000	2.31	0.00	0.12	2.3	0.008
6.500	0.000	2.32	0.00	0.12	2.3	0.008
6.583	0.000	2.33	0.00	0.12	2.3	0.008
6.667	0.000	2.33	0.00	0.12	2.3	0.008
6.750	0.000	2.35	0.00	0.12	2.3	0.008
6.833	0.000	2.36	0.00	0.12	2.4	0.008
6.917	0.000	2.37	0.00	0.12	2.4	0.008
7.000	0.000	2.38	0.00	0.12	2.4	0.008
7.083	0.000	2.39	0.00	0.12	2.4	0.008
7.167	0.000	2.40	0.00	0.12	2.4	0.008
7.250	0.000	2.41	0.00	0.12	2.4	0.008
7.333	0.000	2.42	0.00	0.13	2.4	0.008
7.417	0.000	2.43	0.00	0.13	2.4	0.008
7.500	0.000	2.44	0.00	0.13	2.4	0.008
7.583	0.000	2.45	0.00	0.13	2.4	0.008
7.667	0.000	2.46	0.00	0.13	2.5	0.008
7.750	0.000	2.48	0.00	0.13	2.5	0.009
7.833	0.000	2.49	0.00	0.13	2.5	0.009
7.917	0.000	2.50	0.00	0.13	2.5	0.009
8.000	0.000	2.51	0.00	0.13	2.5	0.009
8.083	0.000	2.52	0.00	0.13	2.5	0.009
8.167	0.000	2.54	0.00	0.13	2.5	0.009
8.250	0.000	2.55	0.00	0.13	2.5	0.009
8.333	0.000	2.56	0.00	0.13	2.6	0.009
8.417	0.000	2.58	0.00	0.13	2.6	0.009
8.500	0.000	2.59	0.00	0.13	2.6	0.009
8.583	0.000	2.60	0.00	0.13	2.6	0.009
8.667	0.000	2.62	0.00	0.14	2.6	0.009
8.750	0.000	2.63	0.00	0.14	2.6	0.009
8.833	0.000	2.65	0.00	0.14	2.6	0.009
8.917	0.000	2.66	0.00	0.14	2.7	0.009
9.000	0.000	2.68	0.00	0.14	2.7	0.009
9.083	0.000	2.69	0.00	0.14	2.7	0.009
9.167	0.000	2.71	0.00	0.14	2.7	0.009
9.250	0.000	2.72	0.00	0.14	2.7	0.009
9.333	0.000	2.74	0.00	0.14	2.7	0.009
9.417	0.000	2.75	0.00	0.14	2.7	0.009
9.500	0.000	2.77	0.00	0.14	2.8	0.010
9.583	0.000	2.79	0.00	0.14	2.8	0.010
9.667	0.000	2.80	0.00	0.15	2.8	0.010
9.750	0.000	2.82	0.00	0.15	2.8	0.010
9.833	0.000	2.84	0.00	0.15	2.8	0.010
9.917	0.000	2.86	0.00	0.15	2.8	0.010
10.000	0.000	2.88	0.00	0.15	2.9	0.010
10.083	0.000	2.90	0.00	0.15	2.9	0.010
10.167	0.000	2.91	0.00	0.15	2.9	0.010
10.250	0.000	2.93	0.00	0.15	2.9	0.010
10.333	0.000	2.95	0.00	0.15	2.9	0.011
10.417	0.000	2.98	0.00	0.16	2.9	0.011
10.500	0.000	3.00	0.00	0.16	2.9	0.012
10.583	0.000	3.02	0.00	0.16	2.9	0.013
10.667	0.000	3.04	0.00	0.17	2.9	0.013
10.750	0.000	3.06	0.00	0.17	2.9	0.014
10.833	0.000	3.09	0.00	0.18	2.9	0.015
10.917	0.000	3.11	0.00	0.18	2.9	0.017
11.000	0.000	3.13	0.00	0.19	2.9	0.018
11.083	0.000	3.16	0.00	0.20	2.9	0.020
11.167	0.000	3.18	0.00	0.21	3.0	0.021
11.250	0.000	3.21	0.00	0.21	3.0	0.023
11.333	0.000	3.23	0.00	0.22	3.0	0.025
11.417	0.000	3.26	0.00	0.23	3.0	0.027
11.500	0.000	3.29	0.00	0.24	3.0	0.029
11.583	0.000	3.32	0.00	0.25	3.0	0.031
11.667	0.000	3.35	0.00	0.27	3.0	0.033
11.750	0.000	3.38	0.00	0.28	3.0	0.036
11.833	0.000	3.41	0.00	0.29	3.0	0.038
11.917	0.000	3.44	0.00	0.30	3.0	0.041
12.000	0.000	3.47	0.00	0.32	3.1	0.044
12.083	0.000	3.54	0.00	0.33	3.1	0.047
12.167	0.000	3.75	0.00	0.35	3.1	0.051
12.250	0.000	4.05	0.00	0.36	3.1	0.058
12.333	0.000	4.23	0.00	0.37	3.1	0.066
12.417	0.000	4.31	0.00	0.39	3.1	0.074
12.500	0.000	4.36	0.00	0.40	3.1	0.082
12.583	0.000	4.40	0.00	0.41	3.2	0.091

BLDG25.RES

12.667	0.000	4.45	0.00	0.43	3.2	0.100
12.750	0.000	4.49	0.00	0.44	3.2	0.109
12.833	0.000	4.53	0.00	0.45	3.2	0.118
12.917	0.000	4.57	0.00	0.47	3.2	0.127
13.000	0.000	4.62	0.00	0.48	3.2	0.137
13.083	0.000	4.67	0.00	0.50	3.2	0.147
13.167	0.000	4.72	0.00	0.51	3.3	0.157
13.250	0.000	4.77	0.00	0.53	3.3	0.167
13.333	0.000	4.82	0.00	0.55	3.3	0.177
13.417	0.000	4.87	0.00	0.56	3.3	0.188
13.500	0.000	4.93	0.00	0.57	3.3	0.199
13.583	0.000	4.99	0.00	0.58	3.3	0.211
13.667	0.000	5.05	0.00	0.59	3.3	0.223
13.750	0.000	5.12	0.00	0.60	3.3	0.235
13.833	0.000	5.19	0.00	0.61	3.4	0.248
13.917	0.000	5.26	0.00	0.63	3.4	0.261
14.000	0.000	5.34	0.00	0.64	3.4	0.274
14.083	0.000	5.40	0.00	0.65	3.4	0.288
14.167	0.000	5.43	0.00	0.67	3.4	0.302
14.250	0.000	5.43	0.00	0.68	3.4	0.316
14.333	0.000	5.47	0.00	0.69	3.4	0.330
14.417	0.000	5.56	0.00	0.71	3.4	0.344
14.500	0.000	5.67	0.00	0.72	3.5	0.359
14.583	0.000	5.78	0.00	0.74	3.5	0.375
14.667	0.000	5.91	0.00	0.75	3.5	0.392
14.750	0.000	6.04	0.00	0.76	3.5	0.409
14.833	0.000	6.19	0.00	0.78	3.5	0.428
14.917	0.000	6.35	0.00	0.79	3.5	0.447
15.000	0.000	6.52	0.00	0.81	3.6	0.467
15.083	0.000	6.72	0.00	0.83	3.6	0.489
15.167	0.000	6.93	0.00	0.84	3.6	0.512
15.250	0.000	7.17	0.00	0.86	3.6	0.537
15.333	0.000	7.44	0.00	0.88	3.6	0.563
15.417	0.000	7.64	0.00	0.90	3.6	0.591
15.500	0.000	7.36	0.00	0.92	3.7	0.616
15.583	0.000	6.82	0.00	0.94	3.7	0.638
15.667	0.000	6.83	0.00	0.96	3.7	0.659
15.750	0.000	7.32	0.00	0.97	3.7	0.684
15.833	0.000	8.10	0.00	0.99	3.7	0.714
15.917	0.000	9.30	0.00	1.02	3.8	0.752
16.000	0.000	11.64	0.00	1.05	3.8	0.806
16.083	0.000	17.66	0.00	1.12	3.8	0.902
16.167	0.000	31.02	0.00	1.23	3.9	1.088
16.250	0.000	36.08	0.00	1.37	4.0	1.309
16.333	0.000	23.47	0.00	1.44	4.2	1.442
16.417	0.000	13.15	0.00	1.47	4.2	1.503
16.500	0.000	9.08	0.00	1.49	4.2	1.537
16.583	0.000	8.29	0.00	1.50	4.2	1.565
16.667	0.000	7.76	0.00	1.51	4.3	1.589
16.750	0.000	7.22	0.00	1.52	4.3	1.609
16.833	0.000	6.73	0.00	1.53	4.3	1.626
16.917	0.000	6.33	0.00	1.54	4.3	1.640
17.000	0.000	6.03	0.00	1.55	4.3	1.652
17.083	0.000	5.78	0.00	1.55	4.3	1.662
17.167	0.000	5.62	0.00	1.56	4.3	1.671
17.250	0.000	5.51	0.00	1.56	4.3	1.680
17.333	0.000	5.38	0.00	1.56	4.3	1.687
17.417	0.000	5.24	0.00	1.57	4.3	1.694
17.500	0.000	5.11	0.00	1.57	4.3	1.699
17.583	0.000	4.98	0.00	1.57	4.3	1.704
17.667	0.000	4.87	0.00	1.57	4.3	1.708
17.750	0.000	4.76	0.00	1.57	4.3	1.711
17.833	0.000	4.66	0.00	1.58	4.3	1.713
17.917	0.000	4.57	0.00	1.58	4.3	1.715
18.000	0.000	4.48	0.00	1.58	4.3	1.716
18.083	0.000	4.37	0.00	1.58	4.3	1.716
18.167	0.000	4.11	0.00	1.58	4.3	1.715
18.250	0.000	3.78	0.00	1.57	4.3	1.711
18.333	0.000	3.56	0.00	1.57	4.3	1.706
18.417	0.000	3.45	0.00	1.57	4.3	1.700
18.500	0.000	3.38	0.00	1.57	4.3	1.694
18.583	0.000	3.32	0.00	1.56	4.3	1.687
18.667	0.000	3.26	0.00	1.56	4.3	1.680
18.750	0.000	3.20	0.00	1.56	4.3	1.672
18.833	0.000	3.15	0.00	1.55	4.3	1.664
18.917	0.000	3.10	0.00	1.55	4.3	1.656
19.000	0.000	3.06	0.00	1.54	4.3	1.647

←  $Q_{100}(\text{DISCHARGE}) = 4.3 \text{ cfs}$   
 PONDING DEPTH = 1.58 FT  
 VOLUME STORED = 1.716 AC·FT

BLDG2S.RES

19.083	0.000	3.01	0.00	1.54	4.3	1.639
19.167	0.000	2.97	0.00	1.53	4.3	1.630
19.250	0.000	2.93	0.00	1.53	4.3	1.620
19.333	0.000	2.89	0.00	1.52	4.3	1.611
19.417	0.000	2.85	0.00	1.52	4.3	1.601
19.500	0.000	2.82	0.00	1.51	4.3	1.591
19.583	0.000	2.78	0.00	1.51	4.3	1.581
19.667	0.000	2.75	0.00	1.50	4.3	1.570
19.750	0.000	2.72	0.00	1.50	4.3	1.560
19.833	0.000	2.69	0.00	1.49	4.2	1.549
19.917	0.000	2.66	0.00	1.49	4.2	1.538
20.000	0.000	2.63	0.00	1.48	4.2	1.527
20.083	0.000	2.60	0.00	1.47	4.2	1.516
20.167	0.000	2.57	0.00	1.47	4.2	1.505
20.250	0.000	2.55	0.00	1.46	4.2	1.493
20.333	0.000	2.52	0.00	1.46	4.2	1.482
20.417	0.000	2.50	0.00	1.45	4.2	1.470
20.500	0.000	2.47	0.00	1.44	4.2	1.458
20.583	0.000	2.45	0.00	1.44	4.2	1.446
20.667	0.000	2.43	0.00	1.43	4.2	1.434
20.750	0.000	2.41	0.00	1.42	4.2	1.422
20.833	0.000	2.38	0.00	1.42	4.2	1.409
20.917	0.000	2.36	0.00	1.41	4.2	1.397
21.000	0.000	2.34	0.00	1.40	4.2	1.384
21.083	0.000	2.32	0.00	1.40	4.2	1.372
21.167	0.000	2.30	0.00	1.39	4.1	1.359
21.250	0.000	2.28	0.00	1.38	4.1	1.346
21.333	0.000	2.27	0.00	1.38	4.1	1.334
21.417	0.000	2.25	0.00	1.37	4.1	1.321
21.500	0.000	2.23	0.00	1.36	4.1	1.308
21.583	0.000	2.21	0.00	1.36	4.1	1.295
21.667	0.000	2.20	0.00	1.35	4.1	1.281
21.750	0.000	2.18	0.00	1.34	4.1	1.268
21.833	0.000	2.17	0.00	1.33	4.1	1.255
21.917	0.000	2.15	0.00	1.33	4.1	1.242
22.000	0.000	2.13	0.00	1.32	4.1	1.228
22.083	0.000	2.12	0.00	1.31	4.1	1.215
22.167	0.000	2.10	0.00	1.30	4.1	1.202
22.250	0.000	2.09	0.00	1.29	4.0	1.188
22.333	0.000	2.08	0.00	1.29	4.0	1.175
22.417	0.000	2.06	0.00	1.28	4.0	1.161
22.500	0.000	2.05	0.00	1.27	4.0	1.147
22.583	0.000	2.04	0.00	1.26	4.0	1.134
22.667	0.000	2.02	0.00	1.25	4.0	1.120
22.750	0.000	2.01	0.00	1.24	4.0	1.106
22.833	0.000	2.00	0.00	1.24	4.0	1.093
22.917	0.000	1.99	0.00	1.23	4.0	1.079
23.000	0.000	1.97	0.00	1.22	4.0	1.065
23.083	0.000	1.96	0.00	1.21	4.0	1.051
23.167	0.000	1.95	0.00	1.20	4.0	1.038
23.250	0.000	1.94	0.00	1.19	3.9	1.024
23.333	0.000	1.93	0.00	1.19	3.9	1.010
23.417	0.000	1.92	0.00	1.18	3.9	0.996
23.500	0.000	1.91	0.00	1.17	3.9	0.982
23.583	0.000	1.90	0.00	1.16	3.9	0.968
23.667	0.000	1.89	0.00	1.15	3.9	0.954
23.750	0.000	1.88	0.00	1.14	3.9	0.940
23.833	0.000	1.87	0.00	1.13	3.9	0.926
23.917	0.000	1.86	0.00	1.12	3.9	0.912

-----  
 PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 7.088 AF  
 BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)  
 OUTFLOW VOLUME = 7.088 AF  
 LOSS VOLUME = 0.000 AF  
 -----

END OF FLOODSCX ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario  
Volume in Building 3 North Truck Yard, Node 241

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
656.69	0.00	0	107	107	0.00	2.8
656.80	0.11	1950	1959	2066	0.05	3.0
657.00	0.31	17640	6524	8590	0.20	3.2
657.20	0.51	47600	12283	20873	0.48	3.4
657.40	0.71	75230	15971	36844	0.85	3.6
657.60	0.91	84480	17813	54657	1.25	3.8
657.80	1.11	93650	19647	74304	1.71	4.0
658.00	1.31	102820	21494	95798	2.20	4.2
658.20	1.51	112120	23374	119172	2.74	4.4
658.40	1.71	121620	25320	144492	3.32	4.5
658.60	1.91	131580	27318	171810	3.94	4.6
658.80	2.11	141600				

FLOOD ROUTING ANALYSIS  
 USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)  
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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
 \* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO \*  
 \* 100-YEAR DETENTION \*  
 \* BUILDING 3 NORTH TRUCK YARD, NODE 241 \*  
 \*\*\*\*\*

FILE NAME: W:\3654\BLDG3N.DAT  
 TIME/DATE OF STUDY: 23:18 12/12/2020

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 21.450 ACRES  
 BASEFLOW = 0.000 CFS/SQUARE-MILE  
 \*USER ENTERED "LAG" TIME = 0.117 HOURS  
 CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.  
 THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)  
 MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.  
 VALLEY(DEVELOPED) S-GRAPH SELECTED  
 MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 \*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL(INCH)= 0.37  
 SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)= 0.75  
 SPECIFIED PEAK 1-HOUR RAINFALL(INCH) = 1.00  
 SPECIFIED PEAK 3-HOUR RAINFALL(INCH) = 1.90  
 SPECIFIED PEAK 6-HOUR RAINFALL(INCH) = 2.90  
 SPECIFIED PEAK 24-HOUR RAINFALL(INCH) = 5.90

PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
 5-MINUTE FACTOR = 0.999  
 30-MINUTE FACTOR = 0.999  
 1-HOUR FACTOR = 0.999  
 3-HOUR FACTOR = 1.000  
 6-HOUR FACTOR = 1.000  
 24-HOUR FACTOR = 1.000

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
 UNIT INTERVAL PERCENTAGE OF LAG-TIME = 71.225

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES(CFS)
1	8.974	23.279
2	54.194	117.306
3	89.976	92.823
4	98.077	21.015
5	99.389	3.404
6	99.756	0.950



BLDG3N.RES

7 99.939 0.475  
 8 100.000 0.158

\*\*\*\*\*

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119

BLDG3N.RES

68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188

## BLDG3N.RES

145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176

BLDG3N.RES

222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90  
 TOTAL SOIL-LOSS(INCHES) = 0.43  
 TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

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 TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.7630  
 TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 9.7777  
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2 4 - H O U R   S T O R M  
R U N O F F   H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	15.0	30.0	45.0	60.0
0.083	0.0016	0.23	Q	.	.	.	.
0.167	0.0109	1.36	Q	.	.	.	.
0.250	0.0265	2.26	VQ	.	.	.	.
0.333	0.0435	2.47	VQ	.	.	.	.
0.417	0.0608	2.51	VQ	.	.	.	.
0.500	0.0782	2.53	VQ	.	.	.	.
0.583	0.0956	2.54	VQ	.	.	.	.
0.667	0.1132	2.54	VQ	.	.	.	.
0.750	0.1307	2.55	VQ	.	.	.	.
0.833	0.1484	2.56	VQ	.	.	.	.
0.917	0.1660	2.56	VQ	.	.	.	.
1.000	0.1837	2.57	VQ	.	.	.	.
1.083	0.2015	2.58	VQ	.	.	.	.
1.167	0.2193	2.59	VQ	.	.	.	.
1.250	0.2372	2.59	VQ	.	.	.	.
1.333	0.2551	2.60	.Q	.	.	.	.
1.417	0.2730	2.61	.Q	.	.	.	.
1.500	0.2910	2.61	.Q	.	.	.	.
1.583	0.3091	2.62	.Q	.	.	.	.
1.667	0.3272	2.63	.Q	.	.	.	.
1.750	0.3453	2.64	.Q	.	.	.	.
1.833	0.3635	2.64	.Q	.	.	.	.
1.917	0.3818	2.65	.Q	.	.	.	.
2.000	0.4001	2.66	.Q	.	.	.	.
2.083	0.4185	2.67	.Q	.	.	.	.
2.167	0.4369	2.67	.Q	.	.	.	.
2.250	0.4553	2.68	.Q	.	.	.	.
2.333	0.4739	2.69	.Q	.	.	.	.
2.417	0.4924	2.70	.QV	.	.	.	.
2.500	0.5111	2.71	.QV	.	.	.	.
2.583	0.5298	2.71	.QV	.	.	.	.
2.667	0.5485	2.72	.QV	.	.	.	.
2.750	0.5673	2.73	.QV	.	.	.	.
2.833	0.5862	2.74	.QV	.	.	.	.
2.917	0.6051	2.75	.QV	.	.	.	.
3.000	0.6240	2.75	.QV	.	.	.	.
3.083	0.6431	2.76	.QV	.	.	.	.
3.167	0.6622	2.77	.QV	.	.	.	.
3.250	0.6813	2.78	.QV	.	.	.	.
3.333	0.7005	2.79	.QV	.	.	.	.
3.417	0.7198	2.80	.QV	.	.	.	.
3.500	0.7391	2.81	.Q V	.	.	.	.
3.583	0.7585	2.82	.Q V	.	.	.	.
3.667	0.7780	2.83	.Q V	.	.	.	.
3.750	0.7975	2.83	.Q V	.	.	.	.
3.833	0.8171	2.84	.Q V	.	.	.	.
3.917	0.8367	2.85	.Q V	.	.	.	.
4.000	0.8565	2.86	.Q V	.	.	.	.
4.083	0.8762	2.87	.Q V	.	.	.	.
4.167	0.8961	2.88	.Q V	.	.	.	.
4.250	0.9160	2.89	.Q V	.	.	.	.
4.333	0.9360	2.90	.Q V	.	.	.	.
4.417	0.9560	2.91	.Q V	.	.	.	.
4.500	0.9762	2.92	.Q V	.	.	.	.
4.583	0.9964	2.93	.Q V	.	.	.	.
4.667	1.0166	2.94	.Q V	.	.	.	.
4.750	1.0370	2.95	.Q V	.	.	.	.
4.833	1.0574	2.96	.Q V	.	.	.	.
4.917	1.0779	2.97	.Q V	.	.	.	.
5.000	1.0984	2.98	.Q V	.	.	.	.
5.083	1.1190	3.00	.Q V	.	.	.	.
5.167	1.1398	3.01	. Q V	.	.	.	.
5.250	1.1605	3.02	. Q V	.	.	.	.
5.333	1.1814	3.03	. Q V	.	.	.	.
5.417	1.2023	3.04	. Q V	.	.	.	.
5.500	1.2234	3.05	. Q V	.	.	.	.

BLDG3N.RES

5.583	1.2445	3.06	. Q	V	.	.	.	.
5.667	1.2656	3.08	. Q	V	.	.	.	.
5.750	1.2869	3.09	. Q	V	.	.	.	.
5.833	1.3083	3.10	. Q	V	.	.	.	.
5.917	1.3297	3.11	. Q	V	.	.	.	.
6.000	1.3512	3.12	. Q	V	.	.	.	.
6.083	1.3728	3.14	. Q	V	.	.	.	.
6.167	1.3945	3.15	. Q	V	.	.	.	.
6.250	1.4163	3.16	. Q	V	.	.	.	.
6.333	1.4381	3.18	. Q	V	.	.	.	.
6.417	1.4601	3.19	. Q	V	.	.	.	.
6.500	1.4821	3.20	. Q	V	.	.	.	.
6.583	1.5043	3.22	. Q	V	.	.	.	.
6.667	1.5265	3.23	. Q	V	.	.	.	.
6.750	1.5489	3.24	. Q	V	.	.	.	.
6.833	1.5713	3.26	. Q	V	.	.	.	.
6.917	1.5938	3.27	. Q	V	.	.	.	.
7.000	1.6164	3.29	. Q	V	.	.	.	.
7.083	1.6392	3.30	. Q	V	.	.	.	.
7.167	1.6620	3.32	. Q	V	.	.	.	.
7.250	1.6849	3.33	. Q	V	.	.	.	.
7.333	1.7080	3.35	. Q	V	.	.	.	.
7.417	1.7311	3.36	. Q	V	.	.	.	.
7.500	1.7544	3.38	. Q	V	.	.	.	.
7.583	1.7777	3.39	. Q	V	.	.	.	.
7.667	1.8012	3.41	. Q	V	.	.	.	.
7.750	1.8248	3.42	. Q	V	.	.	.	.
7.833	1.8485	3.44	. Q	V	.	.	.	.
7.917	1.8723	3.46	. Q	V	.	.	.	.
8.000	1.8962	3.48	. Q	V	.	.	.	.
8.083	1.9203	3.49	. Q	V	.	.	.	.
8.167	1.9445	3.51	. Q	V	.	.	.	.
8.250	1.9688	3.53	. Q	V	.	.	.	.
8.333	1.9932	3.55	. Q	V	.	.	.	.
8.417	2.0177	3.56	. Q	V	.	.	.	.
8.500	2.0424	3.58	. Q	V	.	.	.	.
8.583	2.0672	3.60	. Q	V	.	.	.	.
8.667	2.0922	3.62	. Q	V	.	.	.	.
8.750	2.1173	3.64	. Q	V	.	.	.	.
8.833	2.1425	3.66	. Q	V	.	.	.	.
8.917	2.1678	3.68	. Q	V	.	.	.	.
9.000	2.1933	3.70	. Q	V	.	.	.	.
9.083	2.2190	3.72	. Q	V	.	.	.	.
9.167	2.2448	3.75	. Q	V	.	.	.	.
9.250	2.2707	3.77	. Q	V	.	.	.	.
9.333	2.2968	3.79	. Q	V	.	.	.	.
9.417	2.3231	3.81	. Q	V	.	.	.	.
9.500	2.3495	3.84	. Q	V	.	.	.	.
9.583	2.3761	3.86	. Q	V	.	.	.	.
9.667	2.4028	3.88	. Q	V	.	.	.	.
9.750	2.4297	3.91	. Q	V	.	.	.	.
9.833	2.4568	3.93	. Q	V	.	.	.	.
9.917	2.4841	3.96	. Q	V	.	.	.	.
10.000	2.5115	3.98	. Q	V	.	.	.	.
10.083	2.5391	4.01	. Q	V	.	.	.	.
10.167	2.5669	4.04	. Q	V	.	.	.	.
10.250	2.5949	4.06	. Q	V	.	.	.	.
10.333	2.6231	4.09	. Q	V	.	.	.	.
10.417	2.6515	4.12	. Q	V	.	.	.	.
10.500	2.6801	4.15	. Q	V	.	.	.	.
10.583	2.7089	4.18	. Q	.V	.	.	.	.
10.667	2.7379	4.21	. Q	.V	.	.	.	.
10.750	2.7671	4.24	. Q	.V	.	.	.	.
10.833	2.7965	4.27	. Q	.V	.	.	.	.
10.917	2.8262	4.31	. Q	.V	.	.	.	.
11.000	2.8561	4.34	. Q	.V	.	.	.	.
11.083	2.8862	4.37	. Q	.V	.	.	.	.
11.167	2.9166	4.41	. Q	.V	.	.	.	.
11.250	2.9472	4.45	. Q	.V	.	.	.	.
11.333	2.9781	4.48	. Q	.V	.	.	.	.
11.417	3.0092	4.52	. Q	.V	.	.	.	.
11.500	3.0406	4.56	. Q	.V	.	.	.	.
11.583	3.0723	4.60	. Q	.V	.	.	.	.
11.667	3.1043	4.64	. Q	.V	.	.	.	.
11.750	3.1365	4.68	. Q	.V	.	.	.	.
11.833	3.1691	4.73	. Q	.V	.	.	.	.
11.917	3.2019	4.77	. Q	.V	.	.	.	.

BLDG3N.RES

12.000	3.2351	4.82	Q	V	.	.	.	.	.
12.083	3.2692	4.95	Q	V	.	.	.	.	.
12.167	3.3066	5.42	Q	V	.	.	.	.	.
12.250	3.3466	5.81	Q	V	.	.	.	.	.
12.333	3.3875	5.94	Q	V	.	.	.	.	.
12.417	3.4288	6.00	Q	V	.	.	.	.	.
12.500	3.4705	6.06	Q	V	.	.	.	.	.
12.583	3.5125	6.11	Q	V	.	.	.	.	.
12.667	3.5550	6.17	Q	V	.	.	.	.	.
12.750	3.5979	6.22	Q	V	.	.	.	.	.
12.833	3.6412	6.29	Q	V	.	.	.	.	.
12.917	3.6849	6.35	Q	V	.	.	.	.	.
13.000	3.7290	6.41	Q	V	.	.	.	.	.
13.083	3.7736	6.48	Q	V	.	.	.	.	.
13.167	3.8187	6.55	Q	V	.	.	.	.	.
13.250	3.8643	6.62	Q	V	.	.	.	.	.
13.333	3.9104	6.69	Q	V	.	.	.	.	.
13.417	3.9570	6.77	Q	V	.	.	.	.	.
13.500	4.0042	6.85	Q	V	.	.	.	.	.
13.583	4.0519	6.93	Q	V	.	.	.	.	.
13.667	4.1003	7.02	Q	V	.	.	.	.	.
13.750	4.1493	7.11	Q	V	.	.	.	.	.
13.833	4.1990	7.21	Q	V	.	.	.	.	.
13.917	4.2494	7.31	Q	V	.	.	.	.	.
14.000	4.3005	7.42	Q	V	.	.	.	.	.
14.083	4.3522	7.51	Q	V	.	.	.	.	.
14.167	4.4037	7.49	Q	V	.	.	.	.	.
14.250	4.4554	7.50	Q	V	.	.	.	.	.
14.333	4.5078	7.61	Q	V	.	.	.	.	.
14.417	4.5611	7.75	Q	V	.	.	.	.	.
14.500	4.6156	7.91	Q	V	.	.	.	.	.
14.583	4.6712	8.07	Q	V.	.	.	.	.	.
14.667	4.7281	8.26	Q	V.	.	.	.	.	.
14.750	4.7862	8.45	Q	V.	.	.	.	.	.
14.833	4.8459	8.66	Q	V.	.	.	.	.	.
14.917	4.9071	8.89	Q	V	.	.	.	.	.
15.000	4.9701	9.15	Q	V	.	.	.	.	.
15.083	5.0350	9.42	Q	V	.	.	.	.	.
15.167	5.1021	9.74	Q	V	.	.	.	.	.
15.250	5.1716	10.08	Q	.V	.	.	.	.	.
15.333	5.2439	10.51	Q	.V	.	.	.	.	.
15.417	5.3173	10.66	Q	.V	.	.	.	.	.
15.500	5.3840	9.68	Q	V	.	.	.	.	.
15.583	5.4465	9.08	Q	V	.	.	.	.	.
15.667	5.5129	9.64	Q	V	.	.	.	.	.
15.750	5.5857	10.58	Q	V	.	.	.	.	.
15.833	5.6675	11.87	Q	V	.	.	.	.	.
15.917	5.7634	13.93	Q.	V	.	.	.	.	.
16.000	5.8904	18.44	Q	V	.	.	.	.	.
16.083	6.1014	30.63	.	Q	V	.	.	.	.
16.167	6.4932	56.89	.	.	V	.	.	Q	.
16.250	6.8059	45.40	.	.	V	.	Q	.	.
16.333	6.9468	20.46	.	Q	V	.	.	.	.
16.417	7.0318	12.35	.	Q	V	.	.	.	.
16.500	7.1085	11.13	.	Q	V.	.	.	.	.
16.583	7.1836	10.90	.	Q	V.	.	.	.	.
16.667	7.2535	10.15	.	Q	V.	.	.	.	.
16.750	7.3186	9.45	.	Q	V.	.	.	.	.
16.833	7.3800	8.91	.	Q	V	.	.	.	.
16.917	7.4383	8.47	.	Q	V	.	.	.	.
17.000	7.4940	8.09	.	Q	V	.	.	.	.
17.083	7.5477	7.79	.	Q	V	.	.	.	.
17.167	7.6003	7.65	.	Q	.V	.	.	.	.
17.250	7.6521	7.51	.	Q	.V	.	.	.	.
17.333	7.7024	7.31	.	Q	.V	.	.	.	.
17.417	7.7515	7.12	.	Q	.V	.	.	.	.
17.500	7.7992	6.94	.	Q	.V	.	.	.	.
17.583	7.8459	6.77	.	Q	.V	.	.	.	.
17.667	7.8915	6.62	.	Q	.V	.	.	.	.
17.750	7.9361	6.48	.	Q	.V	.	.	.	.
17.833	7.9798	6.35	.	Q	.V	.	.	.	.
17.917	8.0227	6.23	.	Q	.V	.	.	.	.
18.000	8.0648	6.11	.	Q	.V	.	.	.	.
18.083	8.1056	5.92	.	Q	.V	.	.	.	.
18.167	8.1427	5.39	.	Q	.V	.	.	.	.
18.250	8.1769	4.96	.	Q	.V	.	.	.	.
18.333	8.2099	4.79	.	Q	.V	.	.	.	.

BLDG3N.RES

18.417	8.2422	4.69	. Q	.	.	.	V	.
18.500	8.2739	4.60	. Q	.	.	.	V	.
18.583	8.3051	4.52	. Q	.	.	.	V	.
18.667	8.3357	4.45	. Q	.	.	.	V	.
18.750	8.3658	4.38	. Q	.	.	.	V	.
18.833	8.3955	4.31	. Q	.	.	.	V	.
18.917	8.4247	4.24	. Q	.	.	.	V	.
19.000	8.4535	4.18	. Q	.	.	.	V	.
19.083	8.4819	4.12	. Q	.	.	.	V	.
19.167	8.5099	4.06	. Q	.	.	.	V	.
19.250	8.5375	4.01	. Q	.	.	.	V	.
19.333	8.5648	3.96	. Q	.	.	.	V	.
19.417	8.5917	3.91	. Q	.	.	.	V	.
19.500	8.6182	3.86	. Q	.	.	.	V	.
19.583	8.6445	3.81	. Q	.	.	.	V	.
19.667	8.6704	3.77	. Q	.	.	.	V	.
19.750	8.6961	3.72	. Q	.	.	.	V	.
19.833	8.7215	3.68	. Q	.	.	.	V	.
19.917	8.7465	3.64	. Q	.	.	.	V	.
20.000	8.7714	3.60	. Q	.	.	.	V	.
20.083	8.7959	3.57	. Q	.	.	.	V	.
20.167	8.8202	3.53	. Q	.	.	.	V	.
20.250	8.8443	3.49	. Q	.	.	.	V	.
20.333	8.8681	3.46	. Q	.	.	.	V	.
20.417	8.8917	3.42	. Q	.	.	.	V	.
20.500	8.9150	3.39	. Q	.	.	.	V	.
20.583	8.9382	3.36	. Q	.	.	.	V	.
20.667	8.9611	3.33	. Q	.	.	.	V	.
20.750	8.9838	3.30	. Q	.	.	.	V	.
20.833	9.0064	3.27	. Q	.	.	.	V	.
20.917	9.0287	3.24	. Q	.	.	.	V	.
21.000	9.0509	3.22	. Q	.	.	.	V	.
21.083	9.0728	3.19	. Q	.	.	.	V	.
21.167	9.0946	3.16	. Q	.	.	.	V	.
21.250	9.1162	3.14	. Q	.	.	.	V	.
21.333	9.1376	3.11	. Q	.	.	.	V	.
21.417	9.1589	3.09	. Q	.	.	.	V	.
21.500	9.1800	3.06	. Q	.	.	.	V	.
21.583	9.2009	3.04	. Q	.	.	.	V	.
21.667	9.2217	3.02	. Q	.	.	.	V	.
21.750	9.2423	3.00	.Q	.	.	.	V	.
21.833	9.2628	2.97	.Q	.	.	.	V	.
21.917	9.2832	2.95	.Q	.	.	.	V	.
22.000	9.3034	2.93	.Q	.	.	.	V	.
22.083	9.3234	2.91	.Q	.	.	.	V	.
22.167	9.3433	2.89	.Q	.	.	.	V	.
22.250	9.3631	2.87	.Q	.	.	.	V	.
22.333	9.3828	2.85	.Q	.	.	.	V	.
22.417	9.4023	2.83	.Q	.	.	.	V	.
22.500	9.4217	2.82	.Q	.	.	.	V	.
22.583	9.4409	2.80	.Q	.	.	.	V	.
22.667	9.4601	2.78	.Q	.	.	.	V	.
22.750	9.4791	2.76	.Q	.	.	.	V	.
22.833	9.4980	2.75	.Q	.	.	.	V	.
22.917	9.5168	2.73	.Q	.	.	.	V	.
23.000	9.5355	2.71	.Q	.	.	.	V.	.
23.083	9.5541	2.70	.Q	.	.	.	V.	.
23.167	9.5726	2.68	.Q	.	.	.	V.	.
23.250	9.5909	2.67	.Q	.	.	.	V.	.
23.333	9.6092	2.65	.Q	.	.	.	V.	.
23.417	9.6273	2.64	.Q	.	.	.	V.	.
23.500	9.6454	2.62	.Q	.	.	.	V.	.
23.583	9.6633	2.61	.Q	.	.	.	V.	.
23.667	9.6812	2.59	.Q	.	.	.	V.	.
23.750	9.6990	2.58	.Q	.	.	.	V.	.
23.833	9.7166	2.56	.Q	.	.	.	V.	.
23.917	9.7342	2.55	.Q	.	.	.	V.	.
24.000	9.7517	2.54	.Q	.	.	.	V.	.
24.083	9.7675	2.30	.Q	.	.	.	V.	.
24.167	9.7755	1.16	Q	.	.	.	V.	.
24.250	9.7772	0.25	Q	.	.	.	V.	.
24.333	9.7775	0.05	Q	.	.	.	V.	.
24.417	9.7777	0.02	Q	.	.	.	V.	.
24.500	9.7777	0.01	Q	.	.	.	V.	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have

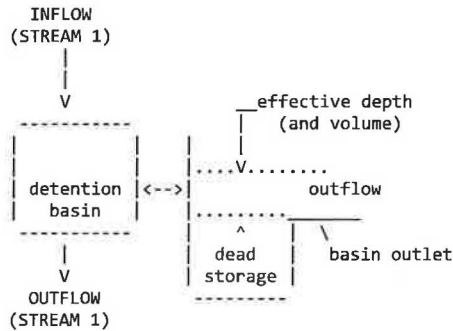


an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1470.0
10%	355.0
20%	40.0
30%	25.0
40%	15.0
50%	15.0
60%	10.0
70%	10.0
80%	5.0
90%	5.0

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 3.1

>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<<  
 =====



ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1  
 THROUGH A FLOW-THROUGH DETENTION BASIN  
 SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 DEAD STORAGE(AF) = 0.000  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.000  
 SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000  
 DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.11	2.80	0.002
3	0.31	3.00	0.050
4	0.51	3.20	0.200
5	0.71	3.40	0.480
6	0.91	3.60	0.850
7	1.11	3.80	1.250
8	1.31	4.00	1.710
9	1.51	4.20	2.200
10	1.71	4.40	2.740
11	1.91	4.50	3.320
12	2.11	4.60	3.940

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MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):  
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;  
 MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
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BLDG3N.RES

0.083	0.000	0.23	0.00	0.01	0.2	0.000
0.167	0.000	1.36	0.00	0.08	1.2	0.001
0.250	0.000	2.26	0.00	0.10	2.2	0.002
0.333	0.000	2.47	0.00	0.10	2.5	0.002
0.417	0.000	2.51	0.00	0.10	2.5	0.002
0.500	0.000	2.53	0.00	0.10	2.5	0.002
0.583	0.000	2.54	0.00	0.10	2.5	0.002
0.667	0.000	2.54	0.00	0.10	2.5	0.002
0.750	0.000	2.55	0.00	0.10	2.6	0.002
0.833	0.000	2.56	0.00	0.10	2.6	0.002
0.917	0.000	2.56	0.00	0.10	2.6	0.002
1.000	0.000	2.57	0.00	0.10	2.6	0.002
1.083	0.000	2.58	0.00	0.10	2.6	0.002
1.167	0.000	2.59	0.00	0.10	2.6	0.002
1.250	0.000	2.59	0.00	0.10	2.6	0.002
1.333	0.000	2.60	0.00	0.10	2.6	0.002
1.417	0.000	2.61	0.00	0.10	2.6	0.002
1.500	0.000	2.61	0.00	0.10	2.6	0.002
1.583	0.000	2.62	0.00	0.10	2.6	0.002
1.667	0.000	2.63	0.00	0.10	2.6	0.002
1.750	0.000	2.64	0.00	0.10	2.6	0.002
1.833	0.000	2.64	0.00	0.10	2.6	0.002
1.917	0.000	2.65	0.00	0.10	2.7	0.002
2.000	0.000	2.66	0.00	0.10	2.7	0.002
2.083	0.000	2.67	0.00	0.10	2.7	0.002
2.167	0.000	2.67	0.00	0.11	2.7	0.002
2.250	0.000	2.68	0.00	0.11	2.7	0.002
2.333	0.000	2.69	0.00	0.11	2.7	0.002
2.417	0.000	2.70	0.00	0.11	2.7	0.002
2.500	0.000	2.71	0.00	0.11	2.7	0.002
2.583	0.000	2.71	0.00	0.11	2.7	0.002
2.667	0.000	2.72	0.00	0.11	2.7	0.002
2.750	0.000	2.73	0.00	0.11	2.7	0.002
2.833	0.000	2.74	0.00	0.11	2.7	0.002
2.917	0.000	2.75	0.00	0.11	2.7	0.002
3.000	0.000	2.75	0.00	0.11	2.8	0.002
3.083	0.000	2.76	0.00	0.11	2.8	0.002
3.167	0.000	2.77	0.00	0.11	2.8	0.002
3.250	0.000	2.78	0.00	0.11	2.8	0.002
3.333	0.000	2.79	0.00	0.11	2.8	0.002
3.417	0.000	2.80	0.00	0.11	2.8	0.002
3.500	0.000	2.81	0.00	0.11	2.8	0.002
3.583	0.000	2.82	0.00	0.11	2.8	0.002
3.667	0.000	2.83	0.00	0.11	2.8	0.002
3.750	0.000	2.83	0.00	0.11	2.8	0.003
3.833	0.000	2.84	0.00	0.11	2.8	0.003
3.917	0.000	2.85	0.00	0.11	2.8	0.003
4.000	0.000	2.86	0.00	0.12	2.8	0.004
4.083	0.000	2.87	0.00	0.12	2.8	0.004
4.167	0.000	2.88	0.00	0.12	2.8	0.005
4.250	0.000	2.89	0.00	0.12	2.8	0.005
4.333	0.000	2.90	0.00	0.13	2.8	0.006
4.417	0.000	2.91	0.00	0.13	2.8	0.006
4.500	0.000	2.92	0.00	0.13	2.8	0.007
4.583	0.000	2.93	0.00	0.13	2.8	0.008
4.667	0.000	2.94	0.00	0.14	2.8	0.009
4.750	0.000	2.95	0.00	0.14	2.8	0.009
4.833	0.000	2.96	0.00	0.14	2.8	0.010
4.917	0.000	2.97	0.00	0.15	2.8	0.011
5.000	0.000	2.98	0.00	0.15	2.8	0.012
5.083	0.000	3.00	0.00	0.16	2.8	0.013
5.167	0.000	3.01	0.00	0.16	2.8	0.014
5.250	0.000	3.02	0.00	0.17	2.9	0.016
5.333	0.000	3.03	0.00	0.17	2.9	0.017
5.417	0.000	3.04	0.00	0.18	2.9	0.018
5.500	0.000	3.05	0.00	0.18	2.9	0.019
5.583	0.000	3.06	0.00	0.19	2.9	0.020
5.667	0.000	3.08	0.00	0.19	2.9	0.022
5.750	0.000	3.09	0.00	0.20	2.9	0.023
5.833	0.000	3.10	0.00	0.20	2.9	0.025
5.917	0.000	3.11	0.00	0.21	2.9	0.026
6.000	0.000	3.12	0.00	0.22	2.9	0.028
6.083	0.000	3.14	0.00	0.22	2.9	0.029
6.167	0.000	3.15	0.00	0.23	2.9	0.031
6.250	0.000	3.16	0.00	0.24	2.9	0.032
6.333	0.000	3.18	0.00	0.24	2.9	0.034
6.417	0.000	3.19	0.00	0.25	2.9	0.036

BLDG3N, RES

6.500	0.000	3.20	0.00	0.26	2.9	0.038
6.583	0.000	3.22	0.00	0.27	3.0	0.039
6.667	0.000	3.23	0.00	0.27	3.0	0.041
6.750	0.000	3.24	0.00	0.28	3.0	0.043
6.833	0.000	3.26	0.00	0.29	3.0	0.045
6.917	0.000	3.27	0.00	0.30	3.0	0.047
7.000	0.000	3.29	0.00	0.31	3.0	0.049
7.083	0.000	3.30	0.00	0.31	3.0	0.051
7.167	0.000	3.32	0.00	0.31	3.0	0.053
7.250	0.000	3.33	0.00	0.32	3.0	0.056
7.333	0.000	3.35	0.00	0.32	3.0	0.058
7.417	0.000	3.36	0.00	0.32	3.0	0.060
7.500	0.000	3.38	0.00	0.33	3.0	0.063
7.583	0.000	3.39	0.00	0.33	3.0	0.065
7.667	0.000	3.41	0.00	0.33	3.0	0.068
7.750	0.000	3.42	0.00	0.34	3.0	0.071
7.833	0.000	3.44	0.00	0.34	3.0	0.074
7.917	0.000	3.46	0.00	0.35	3.0	0.077
8.000	0.000	3.48	0.00	0.35	3.0	0.080
8.083	0.000	3.49	0.00	0.35	3.0	0.083
8.167	0.000	3.51	0.00	0.36	3.0	0.086
8.250	0.000	3.53	0.00	0.36	3.0	0.089
8.333	0.000	3.55	0.00	0.37	3.1	0.093
8.417	0.000	3.56	0.00	0.37	3.1	0.096
8.500	0.000	3.58	0.00	0.38	3.1	0.100
8.583	0.000	3.60	0.00	0.38	3.1	0.103
8.667	0.000	3.62	0.00	0.39	3.1	0.107
8.750	0.000	3.64	0.00	0.39	3.1	0.111
8.833	0.000	3.66	0.00	0.40	3.1	0.115
8.917	0.000	3.68	0.00	0.40	3.1	0.119
9.000	0.000	3.70	0.00	0.41	3.1	0.123
9.083	0.000	3.72	0.00	0.41	3.1	0.127
9.167	0.000	3.75	0.00	0.42	3.1	0.132
9.250	0.000	3.77	0.00	0.43	3.1	0.136
9.333	0.000	3.79	0.00	0.43	3.1	0.141
9.417	0.000	3.81	0.00	0.44	3.1	0.146
9.500	0.000	3.84	0.00	0.44	3.1	0.151
9.583	0.000	3.86	0.00	0.45	3.1	0.156
9.667	0.000	3.88	0.00	0.46	3.1	0.161
9.750	0.000	3.91	0.00	0.46	3.2	0.166
9.833	0.000	3.93	0.00	0.47	3.2	0.171
9.917	0.000	3.96	0.00	0.48	3.2	0.177
10.000	0.000	3.98	0.00	0.49	3.2	0.182
10.083	0.000	4.01	0.00	0.49	3.2	0.188
10.167	0.000	4.04	0.00	0.50	3.2	0.194
10.250	0.000	4.06	0.00	0.51	3.2	0.200
10.333	0.000	4.09	0.00	0.51	3.2	0.206
10.417	0.000	4.12	0.00	0.52	3.2	0.212
10.500	0.000	4.15	0.00	0.52	3.2	0.219
10.583	0.000	4.18	0.00	0.53	3.2	0.225
10.667	0.000	4.21	0.00	0.53	3.2	0.232
10.750	0.000	4.24	0.00	0.54	3.2	0.239
10.833	0.000	4.27	0.00	0.54	3.2	0.246
10.917	0.000	4.31	0.00	0.55	3.2	0.254
11.000	0.000	4.34	0.00	0.55	3.2	0.261
11.083	0.000	4.37	0.00	0.56	3.2	0.269
11.167	0.000	4.41	0.00	0.57	3.3	0.277
11.250	0.000	4.45	0.00	0.57	3.3	0.285
11.333	0.000	4.48	0.00	0.58	3.3	0.294
11.417	0.000	4.52	0.00	0.58	3.3	0.302
11.500	0.000	4.56	0.00	0.59	3.3	0.311
11.583	0.000	4.60	0.00	0.60	3.3	0.320
11.667	0.000	4.64	0.00	0.60	3.3	0.329
11.750	0.000	4.68	0.00	0.61	3.3	0.339
11.833	0.000	4.73	0.00	0.62	3.3	0.349
11.917	0.000	4.77	0.00	0.62	3.3	0.359
12.000	0.000	4.82	0.00	0.63	3.3	0.369
12.083	0.000	4.95	0.00	0.64	3.3	0.380
12.167	0.000	5.42	0.00	0.65	3.3	0.395
12.250	0.000	5.81	0.00	0.66	3.3	0.412
12.333	0.000	5.94	0.00	0.67	3.4	0.430
12.417	0.000	6.00	0.00	0.69	3.4	0.448
12.500	0.000	6.06	0.00	0.70	3.4	0.466
12.583	0.000	6.11	0.00	0.71	3.4	0.485
12.667	0.000	6.17	0.00	0.72	3.4	0.504
12.750	0.000	6.22	0.00	0.73	3.4	0.523
12.833	0.000	6.29	0.00	0.74	3.4	0.543

BLDG3N.RES

12.917	0.000	6.35	0.00	0.75	3.4	0.563
13.000	0.000	6.41	0.00	0.77	3.5	0.583
13.083	0.000	6.48	0.00	0.78	3.5	0.604
13.167	0.000	6.55	0.00	0.79	3.5	0.625
13.250	0.000	6.62	0.00	0.80	3.5	0.647
13.333	0.000	6.69	0.00	0.81	3.5	0.669
13.417	0.000	6.77	0.00	0.82	3.5	0.691
13.500	0.000	6.85	0.00	0.84	3.5	0.714
13.583	0.000	6.93	0.00	0.85	3.5	0.737
13.667	0.000	7.02	0.00	0.86	3.5	0.761
13.750	0.000	7.11	0.00	0.88	3.6	0.786
13.833	0.000	7.21	0.00	0.89	3.6	0.811
13.917	0.000	7.31	0.00	0.90	3.6	0.837
14.000	0.000	7.42	0.00	0.92	3.6	0.863
14.083	0.000	7.51	0.00	0.93	3.6	0.890
14.167	0.000	7.49	0.00	0.94	3.6	0.916
14.250	0.000	7.50	0.00	0.96	3.6	0.943
14.333	0.000	7.61	0.00	0.97	3.7	0.970
14.417	0.000	7.75	0.00	0.98	3.7	0.998
14.500	0.000	7.91	0.00	1.00	3.7	1.027
14.583	0.000	8.07	0.00	1.01	3.7	1.058
14.667	0.000	8.26	0.00	1.03	3.7	1.089
14.750	0.000	8.45	0.00	1.05	3.7	1.121
14.833	0.000	8.66	0.00	1.06	3.7	1.155
14.917	0.000	8.89	0.00	1.08	3.8	1.191
15.000	0.000	9.15	0.00	1.10	3.8	1.228
15.083	0.000	9.42	0.00	1.12	3.8	1.266
15.167	0.000	9.74	0.00	1.13	3.8	1.307
15.250	0.000	10.08	0.00	1.15	3.8	1.350
15.333	0.000	10.51	0.00	1.17	3.9	1.396
15.417	0.000	10.66	0.00	1.19	3.9	1.443
15.500	0.000	9.68	0.00	1.21	3.9	1.483
15.583	0.000	9.08	0.00	1.23	3.9	1.518
15.667	0.000	9.64	0.00	1.24	3.9	1.558
15.750	0.000	10.58	0.00	1.26	3.9	1.603
15.833	0.000	11.87	0.00	1.29	4.0	1.658
15.917	0.000	13.93	0.00	1.32	4.0	1.726
16.000	0.000	18.44	0.00	1.36	4.0	1.825
16.083	0.000	30.63	0.00	1.43	4.1	2.008
16.167	0.000	56.89	0.00	1.57	4.2	2.371
16.250	0.000	45.40	0.00	1.68	4.3	2.654
16.333	0.000	20.46	0.00	1.72	4.4	2.765
16.417	0.000	12.35	0.00	1.74	4.4	2.819
16.500	0.000	11.13	0.00	1.75	4.4	2.866
16.583	0.000	10.90	0.00	1.77	4.4	2.910
16.667	0.000	10.15	0.00	1.78	4.4	2.950
16.750	0.000	9.45	0.00	1.79	4.4	2.984
16.833	0.000	8.91	0.00	1.80	4.4	3.015
16.917	0.000	8.47	0.00	1.81	4.4	3.043
17.000	0.000	8.09	0.00	1.82	4.5	3.068
17.083	0.000	7.79	0.00	1.83	4.5	3.091
17.167	0.000	7.65	0.00	1.84	4.5	3.113
17.250	0.000	7.51	0.00	1.85	4.5	3.134
17.333	0.000	7.31	0.00	1.85	4.5	3.153
17.417	0.000	7.12	0.00	1.86	4.5	3.171
17.500	0.000	6.94	0.00	1.86	4.5	3.188
17.583	0.000	6.77	0.00	1.87	4.5	3.204
17.667	0.000	6.62	0.00	1.88	4.5	3.219
17.750	0.000	6.48	0.00	1.88	4.5	3.233
17.833	0.000	6.35	0.00	1.88	4.5	3.245
17.917	0.000	6.23	0.00	1.89	4.5	3.257
18.000	0.000	6.11	0.00	1.89	4.5	3.269
18.083	0.000	5.92	0.00	1.90	4.5	3.278
18.167	0.000	5.39	0.00	1.90	4.5	3.285
18.250	0.000	4.96	0.00	1.90	4.5	3.288
18.333	0.000	4.79	0.00	1.90	4.5	3.290
18.417	0.000	4.69	0.00	1.90	4.5	3.291
18.500	0.000	4.60	0.00	1.90	4.5	3.292
18.583	0.000	4.52	0.00	1.90	4.5	3.292
18.667	0.000	4.45	0.00	1.90	4.5	3.292
18.750	0.000	4.38	0.00	1.90	4.5	3.291
18.833	0.000	4.31	0.00	1.90	4.5	3.290
18.917	0.000	4.24	0.00	1.90	4.5	3.288
19.000	0.000	4.18	0.00	1.90	4.5	3.286
19.083	0.000	4.12	0.00	1.90	4.5	3.283
19.167	0.000	4.06	0.00	1.90	4.5	3.280
19.250	0.000	4.01	0.00	1.90	4.5	3.277

←  $Q_{100}(\text{DISCHARGE}) = 4.5 \text{ CFS}$   
 PONDING DEPTH = 1.90 FT  
 VOLUME STORED = 3.292 AC FT

BLDG3N.RES						
19.333	0.000	3.96	0.00	1.89	4.5	3.273
19.417	0.000	3.91	0.00	1.89	4.5	3.269
19.500	0.000	3.86	0.00	1.89	4.5	3.265
19.583	0.000	3.81	0.00	1.89	4.5	3.260
19.667	0.000	3.77	0.00	1.89	4.5	3.255
19.750	0.000	3.72	0.00	1.89	4.5	3.250
19.833	0.000	3.68	0.00	1.88	4.5	3.244
19.917	0.000	3.64	0.00	1.88	4.5	3.239
20.000	0.000	3.60	0.00	1.88	4.5	3.233
20.083	0.000	3.57	0.00	1.88	4.5	3.226
20.167	0.000	3.53	0.00	1.88	4.5	3.220
20.250	0.000	3.49	0.00	1.87	4.5	3.213
20.333	0.000	3.46	0.00	1.87	4.5	3.206
20.417	0.000	3.42	0.00	1.87	4.5	3.199
20.500	0.000	3.39	0.00	1.87	4.5	3.191
20.583	0.000	3.36	0.00	1.86	4.5	3.183
20.667	0.000	3.33	0.00	1.86	4.5	3.175
20.750	0.000	3.30	0.00	1.86	4.5	3.167
20.833	0.000	3.27	0.00	1.85	4.5	3.159
20.917	0.000	3.24	0.00	1.85	4.5	3.151
21.000	0.000	3.22	0.00	1.85	4.5	3.142
21.083	0.000	3.19	0.00	1.85	4.5	3.133
21.167	0.000	3.16	0.00	1.84	4.5	3.124
21.250	0.000	3.14	0.00	1.84	4.5	3.115
21.333	0.000	3.11	0.00	1.84	4.5	3.106
21.417	0.000	3.09	0.00	1.83	4.5	3.096
21.500	0.000	3.06	0.00	1.83	4.5	3.087
21.583	0.000	3.04	0.00	1.83	4.5	3.077
21.667	0.000	3.02	0.00	1.82	4.5	3.067
21.750	0.000	3.00	0.00	1.82	4.5	3.057
21.833	0.000	2.97	0.00	1.82	4.5	3.047
21.917	0.000	2.95	0.00	1.81	4.5	3.036
22.000	0.000	2.93	0.00	1.81	4.5	3.026
22.083	0.000	2.91	0.00	1.80	4.4	3.015
22.167	0.000	2.89	0.00	1.80	4.4	3.005
22.250	0.000	2.87	0.00	1.80	4.4	2.994
22.333	0.000	2.85	0.00	1.79	4.4	2.983
22.417	0.000	2.83	0.00	1.79	4.4	2.972
22.500	0.000	2.82	0.00	1.79	4.4	2.961
22.583	0.000	2.80	0.00	1.78	4.4	2.949
22.667	0.000	2.78	0.00	1.78	4.4	2.938
22.750	0.000	2.76	0.00	1.77	4.4	2.926
22.833	0.000	2.75	0.00	1.77	4.4	2.915
22.917	0.000	2.73	0.00	1.77	4.4	2.903
23.000	0.000	2.71	0.00	1.76	4.4	2.891
23.083	0.000	2.70	0.00	1.76	4.4	2.879
23.167	0.000	2.68	0.00	1.75	4.4	2.867
23.250	0.000	2.67	0.00	1.75	4.4	2.855
23.333	0.000	2.65	0.00	1.75	4.4	2.843
23.417	0.000	2.64	0.00	1.74	4.4	2.831
23.500	0.000	2.62	0.00	1.74	4.4	2.819
23.583	0.000	2.61	0.00	1.73	4.4	2.806
23.667	0.000	2.59	0.00	1.73	4.4	2.794
23.750	0.000	2.58	0.00	1.72	4.4	2.781
23.833	0.000	2.56	0.00	1.72	4.4	2.768
23.917	0.000	2.55	0.00	1.72	4.4	2.756

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PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 9.778 AF  
 BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)  
 OUTFLOW VOLUME = 9.779 AF  
 LOSS VOLUME = 0.000 AF

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END OF FLOODSCX ROUTING ANALYSIS



Job #3654 Grove Business Center, Ontario  
 Volume in Building 4 Truck Yard, Node 182

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
665.48	0.00	0	8	8	0.00	1.02
665.60	0.12	140	209	217	0.00	1.11
665.80	0.32	1950	819	1036	0.02	1.19
666.00	0.52	6240	1734	2770	0.06	1.26
666.20	0.72	11100	2545	5315	0.12	1.33
666.40	0.92	14350	3182	8497	0.20	1.40
666.60	1.12	17470	3818	12315	0.28	1.47
666.80	1.32	20710	3513	15828	0.36	1.52
666.96	1.48	23200				

\*\*\*\*\*  
 SMALL AREA UNIT HYDROGRAPH MODEL  
 \*\*\*\*\*

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 Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:

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 Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 4 TRUCK YARD (NODE 182)  
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RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90  
 TOTAL CATCHMENT AREA(ACRES) = 3.55  
 SOIL-LOSS RATE, Fm, (INCH/HR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 TIME OF CONCENTRATION(MIN.) = 9.40  
 SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA  
 USER SPECIFIED RAINFALL VALUES ARE USED  
 RETURN FREQUENCY(YEARS) = 100  
 5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.37  
 30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.75  
 1-HOUR POINT RAINFALL VALUE(INCHES) = 1.00  
 3-HOUR POINT RAINFALL VALUE(INCHES) = 1.90  
 6-HOUR POINT RAINFALL VALUE(INCHES) = 2.90  
 24-HOUR POINT RAINFALL VALUE(INCHES) = 5.90

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 TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 1.45  
 TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 0.30

\*\*\*\*\*

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	2.5	5.0	7.5	10.0
0.02	0.0000	0.00	Q	.	.	.	.
0.18	0.0024	0.37	.Q	.	.	.	.
0.33	0.0072	0.37	.Q	.	.	.	.
0.49	0.0121	0.38	.Q	.	.	.	.
0.65	0.0169	0.38	.Q	.	.	.	.
0.80	0.0218	0.38	.Q	.	.	.	.
0.96	0.0267	0.38	.Q	.	.	.	.
1.12	0.0317	0.38	.Q	.	.	.	.
1.27	0.0366	0.38	.Q	.	.	.	.
1.43	0.0416	0.39	.Q	.	.	.	.
1.59	0.0466	0.39	.Q	.	.	.	.
1.74	0.0517	0.39	.Q	.	.	.	.
1.90	0.0567	0.39	.Q	.	.	.	.
2.06	0.0618	0.39	.Q	.	.	.	.
2.21	0.0670	0.40	.Q	.	.	.	.
2.37	0.0721	0.40	.Q	.	.	.	.
2.53	0.0773	0.40	.Q	.	.	.	.
2.68	0.0825	0.40	.Q	.	.	.	.
2.84	0.0877	0.41	.Q	.	.	.	.
3.00	0.0930	0.41	.Q	.	.	.	.
3.15	0.0983	0.41	.Q	.	.	.	.
3.31	0.1036	0.41	.Q	.	.	.	.
3.47	0.1090	0.41	.Q	.	.	.	.
3.62	0.1144	0.42	.Q	.	.	.	.
3.78	0.1198	0.42	.Q	.	.	.	.
3.94	0.1253	0.42	.Q	.	.	.	.
4.09	0.1308	0.43	.Q	.	.	.	.
4.25	0.1363	0.43	.Q	.	.	.	.
4.41	0.1419	0.43	.Q	.	.	.	.

4.56	0.1475	0.43	.Q	.	.	.	.
4.72	0.1531	0.44	.Q	.	.	.	.
4.88	0.1588	0.44	.Q	.	.	.	.
5.03	0.1645	0.44	.Q	.	.	.	.
5.19	0.1703	0.45	.Q	.	.	.	.
5.35	0.1761	0.45	.Q	.	.	.	.
5.50	0.1819	0.45	.Q	.	.	.	.
5.66	0.1878	0.46	.Q	.	.	.	.
5.82	0.1937	0.46	.Q	.	.	.	.
5.97	0.1997	0.46	.Q	.	.	.	.
6.13	0.2057	0.47	.Q	.	.	.	.
6.29	0.2117	0.47	.Q	.	.	.	.
6.44	0.2178	0.47	.Q	.	.	.	.
6.60	0.2240	0.48	.Q	.	.	.	.
6.76	0.2302	0.48	.Q	.	.	.	.
6.91	0.2364	0.48	.Q	.	.	.	.
7.07	0.2428	0.49	.Q	.	.	.	.
7.23	0.2491	0.49	.Q	.	.	.	.
7.38	0.2555	0.50	.Q	.	.	.	.
7.54	0.2620	0.50	.Q	.	.	.	.
7.70	0.2685	0.51	.Q	.	.	.	.
7.85	0.2751	0.51	.Q	.	.	.	.
8.01	0.2818	0.52	.Q	.	.	.	.
8.17	0.2885	0.52	.Q	.	.	.	.
8.32	0.2952	0.53	.Q	.	.	.	.
8.48	0.3021	0.53	.Q	.	.	.	.
8.64	0.3090	0.54	.Q	.	.	.	.
8.79	0.3160	0.54	.Q	.	.	.	.
8.95	0.3230	0.55	.Q	.	.	.	.
9.11	0.3302	0.55	.Q	.	.	.	.
9.26	0.3374	0.56	.Q	.	.	.	.
9.42	0.3447	0.57	.Q	.	.	.	.
9.58	0.3520	0.57	.Q	.	.	.	.
9.73	0.3595	0.58	.Q	.	.	.	.
9.89	0.3671	0.59	.Q	.	.	.	.
10.05	0.3747	0.59	.Q	.	.	.	.
10.20	0.3824	0.60	.Q	.	.	.	.
10.36	0.3903	0.61	.Q	.	.	.	.
10.52	0.3982	0.62	.Q	.	.	.	.
10.67	0.4063	0.62	.Q	.	.	.	.
10.83	0.4144	0.64	.Q	.	.	.	.
10.99	0.4227	0.64	.Q	.	.	.	.
11.14	0.4311	0.66	.Q	.	.	.	.
11.30	0.4397	0.66	.Q	.	.	.	.
11.46	0.4483	0.68	.Q	.	.	.	.
11.61	0.4572	0.68	.Q	.	.	.	.
11.77	0.4661	0.70	.Q	.	.	.	.
11.93	0.4753	0.71	.Q	.	.	.	.
12.08	0.4848	0.77	.Q	.	.	.	.
12.24	0.4955	0.87	.Q	.	.	.	.
12.40	0.5069	0.89	.Q	.	.	.	.
12.55	0.5185	0.90	.Q	.	.	.	.
12.71	0.5304	0.93	.Q	.	.	.	.
12.87	0.5424	0.94	.Q	.	.	.	.
13.02	0.5547	0.96	.Q	.	.	.	.
13.18	0.5672	0.97	.Q	.	.	.	.
13.34	0.5800	1.00	.Q	.	.	.	.
13.49	0.5931	1.02	.Q	.	.	.	.
13.65	0.6065	1.05	.Q	.	.	.	.
13.81	0.6202	1.07	.Q	.	.	.	.
13.96	0.6343	1.11	.Q	.	.	.	.
14.12	0.6487	1.12	.Q	.	.	.	.
14.28	0.6633	1.13	.Q	.	.	.	.
14.43	0.6781	1.16	.Q	.	.	.	.
14.59	0.6935	1.22	.Q	.	.	.	.
14.75	0.7096	1.26	.Q	.	.	.	.
14.90	0.7264	1.35	.Q	.	.	.	.
15.06	0.7442	1.40	.Q	.	.	.	.
15.22	0.7631	1.53	.Q	.	.	.	.
15.37	0.7835	1.61	.Q	.	.	.	.
15.53	0.8025	1.33	.Q	.	.	.	.
15.69	0.8209	1.50	.Q	.	.	.	.
15.84	0.8440	2.07	.Q	.	.	.	.
16.00	0.8762	2.91	.Q	.	.	.	.
16.16	0.9569	9.54	.	.	.	.	.
16.31	1.0299	1.74	.Q	.	.	.	.
16.47	1.0510	1.52	.Q	.	.	.	.



BLDG4.txt

16.63	1.0702	1.46	. Q	.	.	.	.
16.78	1.0881	1.30	. Q	.	.	.	.
16.94	1.1042	1.19	. Q	.	.	.	.
17.10	1.1190	1.10	. Q	.	.	.	.
17.25	1.1332	1.09	. Q	.	.	.	.
17.41	1.1469	1.03	. Q	.	.	.	.
17.57	1.1600	0.99	. Q	.	.	.	.
17.72	1.1726	0.95	. Q	.	.	.	.
17.88	1.1846	0.91	. Q	.	.	.	.
18.04	1.1963	0.88	. Q	.	.	.	.
18.19	1.2066	0.72	. Q	.	.	.	.
18.35	1.2158	0.69	. Q	.	.	.	.
18.51	1.2246	0.67	. Q	.	.	.	.
18.66	1.2331	0.65	. Q	.	.	.	.
18.82	1.2414	0.63	. Q	.	.	.	.
18.98	1.2495	0.61	. Q	.	.	.	.
19.13	1.2573	0.60	. Q	.	.	.	.
19.29	1.2649	0.58	. Q	.	.	.	.
19.45	1.2724	0.57	. Q	.	.	.	.
19.60	1.2797	0.56	. Q	.	.	.	.
19.76	1.2868	0.54	. Q	.	.	.	.
19.92	1.2938	0.53	. Q	.	.	.	.
20.07	1.3006	0.52	. Q	.	.	.	.
20.23	1.3074	0.51	. Q	.	.	.	.
20.39	1.3140	0.50	. Q	.	.	.	.
20.54	1.3204	0.50	. Q	.	.	.	.
20.70	1.3268	0.49	. Q	.	.	.	.
20.86	1.3330	0.48	. Q	.	.	.	.
21.01	1.3392	0.47	. Q	.	.	.	.
21.17	1.3452	0.46	. Q	.	.	.	.
21.33	1.3512	0.46	. Q	.	.	.	.
21.48	1.3571	0.45	. Q	.	.	.	.
21.64	1.3629	0.44	. Q	.	.	.	.
21.80	1.3686	0.44	. Q	.	.	.	.
21.95	1.3742	0.43	. Q	.	.	.	.
22.11	1.3798	0.43	. Q	.	.	.	.
22.27	1.3853	0.42	. Q	.	.	.	.
22.42	1.3907	0.42	. Q	.	.	.	.
22.58	1.3961	0.41	. Q	.	.	.	.
22.74	1.4014	0.41	. Q	.	.	.	.
22.89	1.4066	0.40	. Q	.	.	.	.
23.05	1.4118	0.40	. Q	.	.	.	.
23.21	1.4169	0.39	. Q	.	.	.	.
23.36	1.4220	0.39	. Q	.	.	.	.
23.52	1.4270	0.39	. Q	.	.	.	.
23.68	1.4320	0.38	. Q	.	.	.	.
23.83	1.4369	0.38	. Q	.	.	.	.
23.99	1.4418	0.37	. Q	.	.	.	.
24.15	1.4466	0.37	. Q	.	.	.	.
24.30	1.4490	0.00	. Q	.	.	.	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

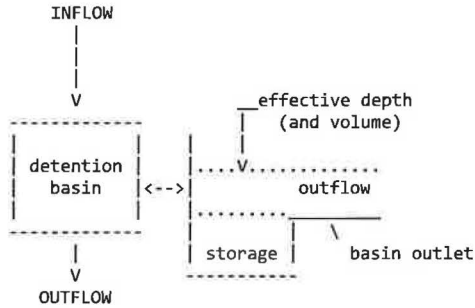
Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1447.6
10%	282.0
20%	28.2
30%	18.8
40%	9.4
50%	9.4
60%	9.4
70%	9.4
80%	9.4
90%	9.4

Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 4 TRUCK YARD (NODE 182)

=====

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 9.400  
 DEAD STORAGE(AF) = 0.00  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.00  
 ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:

TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 9

* BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	** BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)
* 0.000	0.000	0.000**	0.120	0.001	1.020*
* 0.320	0.005	1.110**	0.520	0.020	1.190*
* 0.720	0.060	1.260**	0.920	0.120	1.330*
* 1.120	0.200	1.400**	1.320	0.280	1.470*
* 1.480	0.360	1.520**			

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-0*DT/2} (ACRE-FEET)	{S+0*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.12	-0.00560	0.00760
3	0.32	-0.00219	0.01219
4	0.52	0.01230	0.02770
5	0.72	0.05184	0.06816
6	0.92	0.11139	0.12861
7	1.12	0.19094	0.20906
8	1.32	0.27048	0.28952
9	1.48	0.35016	0.36984

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.020	0.000	0.00	0.00	0.00	0.000
0.177	0.000	0.37	0.08	0.32	0.001
0.333	0.000	0.37	0.08	0.65	0.001
0.490	0.000	0.38	0.08	0.65	0.001
0.647	0.000	0.38	0.08	0.65	0.001
0.803	0.000	0.38	0.08	0.66	0.001
0.960	0.000	0.38	0.08	0.66	0.001
1.117	0.000	0.38	0.08	0.66	0.001
1.273	0.000	0.38	0.08	0.67	0.001
1.430	0.000	0.39	0.08	0.67	0.001
1.587	0.000	0.39	0.08	0.67	0.001
1.743	0.000	0.39	0.08	0.68	0.001
1.900	0.000	0.39	0.08	0.68	0.001
2.057	0.000	0.39	0.08	0.68	0.001
2.213	0.000	0.40	0.08	0.69	0.001
2.370	0.000	0.40	0.08	0.69	0.001
2.527	0.000	0.40	0.08	0.69	0.001
2.683	0.000	0.40	0.08	0.70	0.001
2.840	0.000	0.41	0.08	0.70	0.001

2.997	0.000	0.41	0.08	0.71	0.001
3.153	0.000	0.41	0.08	0.71	0.001
3.310	0.000	0.41	0.08	0.72	0.001
3.467	0.000	0.41	0.08	0.72	0.001
3.623	0.000	0.42	0.09	0.72	0.001
3.780	0.000	0.42	0.09	0.73	0.001
3.937	0.000	0.42	0.09	0.73	0.001
4.093	0.000	0.43	0.09	0.74	0.001
4.250	0.000	0.43	0.09	0.74	0.001
4.407	0.000	0.43	0.09	0.75	0.001
4.563	0.000	0.43	0.09	0.75	0.001
4.720	0.000	0.44	0.09	0.76	0.001
4.877	0.000	0.44	0.09	0.76	0.001
5.033	0.000	0.44	0.09	0.77	0.001
5.190	0.000	0.45	0.09	0.77	0.001
5.347	0.000	0.45	0.09	0.78	0.001
5.503	0.000	0.45	0.09	0.78	0.001
5.660	0.000	0.46	0.09	0.79	0.001
5.817	0.000	0.46	0.09	0.79	0.001
5.973	0.000	0.46	0.09	0.80	0.001
6.130	0.000	0.47	0.10	0.81	0.001
6.287	0.000	0.47	0.10	0.81	0.001
6.443	0.000	0.47	0.10	0.82	0.001
6.600	0.000	0.48	0.10	0.83	0.001
6.757	0.000	0.48	0.10	0.83	0.001
6.913	0.000	0.48	0.10	0.84	0.001
7.070	0.000	0.49	0.10	0.85	0.001
7.227	0.000	0.49	0.10	0.85	0.001
7.383	0.000	0.50	0.10	0.86	0.001
7.540	0.000	0.50	0.10	0.87	0.001
7.697	0.000	0.51	0.10	0.88	0.001
7.853	0.000	0.51	0.10	0.88	0.001
8.010	0.000	0.52	0.11	0.89	0.001
8.167	0.000	0.52	0.11	0.90	0.001
8.323	0.000	0.53	0.11	0.91	0.001
8.480	0.000	0.53	0.11	0.92	0.001
8.637	0.000	0.54	0.11	0.93	0.001
8.793	0.000	0.54	0.11	0.94	0.001
8.950	0.000	0.55	0.11	0.95	0.001
9.107	0.000	0.55	0.11	0.96	0.001
9.263	0.000	0.56	0.11	0.97	0.001
9.420	0.000	0.57	0.12	0.98	0.001
9.577	0.000	0.57	0.12	0.99	0.001
9.733	0.000	0.58	0.12	1.00	0.001
9.890	0.000	0.59	0.12	1.01	0.001
10.047	0.000	0.59	0.12	1.02	0.001
10.203	0.000	0.60	0.13	1.02	0.001
10.360	0.000	0.61	0.13	1.02	0.001
10.517	0.000	0.62	0.14	1.03	0.001
10.673	0.000	0.62	0.14	1.03	0.001
10.830	0.000	0.64	0.15	1.03	0.002
10.987	0.000	0.64	0.15	1.03	0.002
11.143	0.000	0.66	0.16	1.04	0.002
11.300	0.000	0.66	0.16	1.04	0.002
11.457	0.000	0.68	0.17	1.04	0.002
11.613	0.000	0.68	0.18	1.04	0.002
11.770	0.000	0.70	0.18	1.05	0.002
11.927	0.000	0.71	0.19	1.05	0.002
12.083	0.000	0.77	0.22	1.06	0.003
12.240	0.000	0.87	0.28	1.08	0.004
12.397	0.000	0.89	0.29	1.10	0.004
12.553	0.000	0.90	0.30	1.10	0.005
12.710	0.000	0.93	0.31	1.10	0.005
12.867	0.000	0.94	0.32	1.11	0.005
13.023	0.000	0.96	0.32	1.11	0.005
13.180	0.000	0.97	0.33	1.11	0.005
13.337	0.000	1.00	0.33	1.11	0.006
13.493	0.000	1.02	0.33	1.11	0.006
13.650	0.000	1.05	0.34	1.12	0.006
13.807	0.000	1.07	0.34	1.12	0.007
13.963	0.000	1.11	0.35	1.12	0.007
14.120	0.000	1.12	0.35	1.12	0.007
14.277	0.000	1.13	0.35	1.12	0.007
14.433	0.000	1.16	0.36	1.12	0.008
14.590	0.000	1.22	0.37	1.13	0.009
14.747	0.000	1.26	0.40	1.14	0.011
14.903	0.000	1.35	0.43	1.15	0.013

BLDG4.txt

15.060	0.000	1.40	0.47	1.16	0.016
15.217	0.000	1.53	0.52	1.18	0.021
15.373	0.000	1.61	0.55	1.20	0.026
15.530	0.000	1.33	0.56	1.20	0.028
15.687	0.000	1.50	0.58	1.21	0.032
15.843	0.000	2.07	0.63	1.22	0.043
16.000	0.000	2.91	0.73	1.25	0.064
16.157	0.000	9.54	1.05	1.32	0.171
16.313	0.000	1.74	1.06	1.38	0.175
16.470	0.000	1.52	1.06	1.38	0.177
16.627	0.000	1.46	1.07	1.38	0.178
16.783	0.000	1.30	1.06	1.38	0.177
16.940	0.000	1.19	1.06	1.38	0.175
17.097	0.000	1.10	1.05	1.38	0.171
17.253	0.000	1.09	1.04	1.37	0.167
17.410	0.000	1.03	1.03	1.37	0.163
17.567	0.000	0.99	1.02	1.37	0.158
17.723	0.000	0.95	1.00	1.36	0.153
17.880	0.000	0.91	0.99	1.36	0.147
18.037	0.000	0.88	0.97	1.35	0.141
18.193	0.000	0.72	0.95	1.34	0.133
18.350	0.000	0.69	0.93	1.34	0.125
18.507	0.000	0.67	0.91	1.33	0.116
18.663	0.000	0.65	0.88	1.32	0.107
18.820	0.000	0.63	0.85	1.31	0.099
18.977	0.000	0.61	0.82	1.30	0.090
19.133	0.000	0.60	0.79	1.29	0.081
19.290	0.000	0.58	0.76	1.28	0.072
19.447	0.000	0.57	0.73	1.27	0.063
19.603	0.000	0.56	0.69	1.26	0.054
19.760	0.000	0.54	0.64	1.24	0.045
19.917	0.000	0.53	0.60	1.23	0.036
20.073	0.000	0.52	0.55	1.21	0.027
20.230	0.000	0.51	0.49	1.19	0.018
20.387	0.000	0.50	0.38	1.16	0.010
20.543	0.000	0.50	0.16	1.09	0.002
20.700	0.000	0.49	0.10	0.94	0.001
20.857	0.000	0.48	0.10	0.84	0.001
21.013	0.000	0.47	0.10	0.83	0.001
21.170	0.000	0.46	0.09	0.81	0.001
21.327	0.000	0.46	0.09	0.80	0.001
21.483	0.000	0.45	0.09	0.79	0.001
21.640	0.000	0.44	0.09	0.78	0.001
21.797	0.000	0.44	0.09	0.77	0.001
21.953	0.000	0.43	0.09	0.76	0.001
22.110	0.000	0.43	0.09	0.75	0.001
22.267	0.000	0.42	0.09	0.74	0.001
22.423	0.000	0.42	0.09	0.73	0.001
22.580	0.000	0.41	0.08	0.72	0.001
22.737	0.000	0.41	0.08	0.71	0.001
22.893	0.000	0.40	0.08	0.70	0.001
23.050	0.000	0.40	0.08	0.69	0.001
23.207	0.000	0.39	0.08	0.69	0.001
23.363	0.000	0.39	0.08	0.68	0.001
23.520	0.000	0.39	0.08	0.67	0.001
23.677	0.000	0.38	0.08	0.67	0.001
23.833	0.000	0.38	0.08	0.66	0.001
23.990	0.000	0.37	0.08	0.65	0.001
24.147	0.000	0.37	0.08	0.65	0.001
24.303	0.000	0.00	0.00	0.32	0.000
24.460	0.000	0.00	0.00	0.00	0.000

←  $Q_{100}(\text{DISCHARGE}) = 1.4 \text{ CFS}$   
 PONDING DEPTH = 1.07 FT  
 VOLUME STORED = 0.178 ACFT

Job #3654 Grove Business Center, Ontario  
 Volume in Building 5 Truck Yard, Node 171

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
665.78	0.00	0				
			94	94	0.00	1.06
666.00	0.22	850				
			577	671	0.02	1.15
666.20	0.42	4920				
			1560	2231	0.05	1.23
666.40	0.62	10680				
			2655	4886	0.11	1.30
666.60	0.82	15870				
			3626	8512	0.20	1.37
666.80	1.02	20390				
			4549	13061	0.30	1.43
667.00	1.22	25100				

\*\*\*\*\*  
 SMALL AREA UNIT HYDROGRAPH MODEL  
 \*\*\*\*\*

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Analysis prepared by:

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 Problem Descriptions:

JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 5 TRUCK YARD (NODE 171)  
 -----

RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90  
 TOTAL CATCHMENT AREA(ACRES) = 4.10  
 SOIL-LOSS RATE, Fm,(INCH/HR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 TIME OF CONCENTRATION(MIN.) = 8.80  
 SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA  
 USER SPECIFIED RAINFALL VALUES ARE USED  
 RETURN FREQUENCY(YEARS) = 100  
 5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.37  
 30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.75  
 1-HOUR POINT RAINFALL VALUE(INCHES) = 1.00  
 3-HOUR POINT RAINFALL VALUE(INCHES) = 1.90  
 6-HOUR POINT RAINFALL VALUE(INCHES) = 2.90  
 24-HOUR POINT RAINFALL VALUE(INCHES) = 5.90

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 TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 1.67  
 TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 0.34

\*\*\*\*\*

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	5.0	10.0	15.0	20.0
0.01	0.0000	0.00	Q	.	.	.	.
0.16	0.0026	0.43	Q	.	.	.	.
0.31	0.0078	0.43	Q	.	.	.	.
0.45	0.0130	0.43	Q	.	.	.	.
0.60	0.0183	0.43	Q	.	.	.	.
0.75	0.0236	0.44	Q	.	.	.	.
0.89	0.0289	0.44	Q	.	.	.	.
1.04	0.0342	0.44	Q	.	.	.	.
1.19	0.0395	0.44	Q	.	.	.	.
1.33	0.0449	0.44	Q	.	.	.	.
1.48	0.0503	0.45	Q	.	.	.	.
1.63	0.0558	0.45	Q	.	.	.	.
1.77	0.0612	0.45	Q	.	.	.	.
1.92	0.0667	0.45	Q	.	.	.	.
2.07	0.0722	0.46	Q	.	.	.	.
2.21	0.0778	0.46	Q	.	.	.	.
2.36	0.0833	0.46	Q	.	.	.	.
2.51	0.0889	0.46	Q	.	.	.	.
2.65	0.0946	0.47	Q	.	.	.	.
2.80	0.1002	0.47	Q	.	.	.	.
2.95	0.1059	0.47	Q	.	.	.	.
3.09	0.1116	0.47	Q	.	.	.	.
3.24	0.1174	0.48	Q	.	.	.	.
3.39	0.1232	0.48	Q	.	.	.	.
3.53	0.1290	0.48	Q	.	.	.	.
3.68	0.1348	0.48	Q	.	.	.	.
3.83	0.1407	0.49	Q	.	.	.	.
3.97	0.1466	0.49	Q	.	.	.	.
4.12	0.1526	0.49	Q	.	.	.	.

4.27	0.1586	0.49	Q	.	.	.	.
4.41	0.1646	0.50	Q	.	.	.	.
4.56	0.1706	0.50	.Q	.	.	.	.
4.71	0.1767	0.51	.Q	.	.	.	.
4.85	0.1829	0.51	.Q	.	.	.	.
5.00	0.1890	0.51	.Q	.	.	.	.
5.15	0.1953	0.51	.Q	.	.	.	.
5.29	0.2015	0.52	.Q	.	.	.	.
5.44	0.2078	0.52	.Q	.	.	.	.
5.59	0.2142	0.53	.Q	.	.	.	.
5.73	0.2205	0.53	.Q	.	.	.	.
5.88	0.2270	0.53	.Q	.	.	.	.
6.03	0.2334	0.54	.Q	.	.	.	.
6.17	0.2400	0.54	.Q	.	.	.	.
6.32	0.2465	0.54	.Q	.	.	.	.
6.47	0.2531	0.55	.Q	.	.	.	.
6.61	0.2598	0.55	.Q	.	.	.	.
6.76	0.2665	0.56	.Q	.	.	.	.
6.91	0.2733	0.56	.Q	.	.	.	.
7.05	0.2801	0.57	.Q	.	.	.	.
7.20	0.2870	0.57	.Q	.	.	.	.
7.35	0.2939	0.57	.Q	.	.	.	.
7.49	0.3009	0.58	.Q	.	.	.	.
7.64	0.3079	0.58	.Q	.	.	.	.
7.79	0.3150	0.59	.Q	.	.	.	.
7.93	0.3222	0.59	.Q	.	.	.	.
8.08	0.3294	0.60	.Q	.	.	.	.
8.23	0.3367	0.60	.Q	.	.	.	.
8.37	0.3440	0.61	.Q	.	.	.	.
8.52	0.3515	0.62	.Q	.	.	.	.
8.67	0.3590	0.62	.Q	.	.	.	.
8.81	0.3665	0.63	.Q	.	.	.	.
8.96	0.3742	0.63	.Q	.	.	.	.
9.11	0.3819	0.64	.Q	.	.	.	.
9.25	0.3897	0.65	.Q	.	.	.	.
9.40	0.3976	0.65	.Q	.	.	.	.
9.55	0.4055	0.66	.Q	.	.	.	.
9.69	0.4136	0.67	.Q	.	.	.	.
9.84	0.4217	0.67	.Q	.	.	.	.
9.99	0.4299	0.68	.Q	.	.	.	.
10.13	0.4383	0.69	.Q	.	.	.	.
10.28	0.4467	0.70	.Q	.	.	.	.
10.43	0.4552	0.71	.Q	.	.	.	.
10.57	0.4639	0.72	.Q	.	.	.	.
10.72	0.4726	0.73	.Q	.	.	.	.
10.87	0.4815	0.74	.Q	.	.	.	.
11.01	0.4905	0.75	.Q	.	.	.	.
11.16	0.4996	0.76	.Q	.	.	.	.
11.31	0.5089	0.77	.Q	.	.	.	.
11.45	0.5182	0.78	.Q	.	.	.	.
11.60	0.5278	0.79	.Q	.	.	.	.
11.75	0.5375	0.81	.Q	.	.	.	.
11.89	0.5473	0.82	.Q	.	.	.	.
12.04	0.5573	0.84	.Q	.	.	.	.
12.19	0.5684	0.99	.Q	.	.	.	.
12.33	0.5806	1.03	. Q	.	.	.	.
12.48	0.5931	1.04	. Q	.	.	.	.
12.63	0.6058	1.06	. Q	.	.	.	.
12.77	0.6187	1.07	. Q	.	.	.	.
12.92	0.6319	1.10	. Q	.	.	.	.
13.07	0.6452	1.11	. Q	.	.	.	.
13.21	0.6589	1.14	. Q	.	.	.	.
13.36	0.6728	1.15	. Q	.	.	.	.
13.51	0.6869	1.19	. Q	.	.	.	.
13.65	0.7014	1.20	. Q	.	.	.	.
13.80	0.7163	1.24	. Q	.	.	.	.
13.95	0.7315	1.27	. Q	.	.	.	.
14.09	0.7470	1.29	. Q	.	.	.	.
14.24	0.7625	1.28	. Q	.	.	.	.
14.39	0.7784	1.34	. Q	.	.	.	.
14.53	0.7949	1.38	. Q	.	.	.	.
14.68	0.8120	1.45	. Q	.	.	.	.
14.83	0.8299	1.49	. Q	.	.	.	.
14.97	0.8486	1.60	. Q	.	.	.	.
15.12	0.8684	1.66	. Q	.	.	.	.
15.27	0.8894	1.81	. Q	.	.	.	.
15.41	0.9120	1.92	. Q	.	.	.	.

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15.56	0.9334	1.60	. Q	.	.	.	.
15.71	0.9540	1.80	. Q	.	.	.	.
15.85	0.9800	2.50	. Q	.	.	.	.
16.00	1.0164	3.50	. Q	.	.	.	.
16.15	1.1072	11.48	.	.	Q	.	.
16.29	1.1893	2.07	. Q	.	.	.	.
16.44	1.2112	1.56	. Q	.	.	.	.
16.59	1.2311	1.73	. Q	.	.	.	.
16.73	1.2510	1.54	. Q	.	.	.	.
16.88	1.2689	1.41	. Q	.	.	.	.
17.03	1.2854	1.31	. Q	.	.	.	.
17.17	1.3012	1.29	. Q	.	.	.	.
17.32	1.3164	1.22	. Q	.	.	.	.
17.47	1.3309	1.17	. Q	.	.	.	.
17.61	1.3448	1.12	. Q	.	.	.	.
17.76	1.3582	1.08	. Q	.	.	.	.
17.91	1.3711	1.05	. Q	.	.	.	.
18.05	1.3836	1.02	. Q	.	.	.	.
18.20	1.3947	0.83	.Q	.	.	.	.
18.35	1.4046	0.80	.Q	.	.	.	.
18.49	1.4141	0.77	.Q	.	.	.	.
18.64	1.4234	0.75	.Q	.	.	.	.
18.79	1.4324	0.73	.Q	.	.	.	.
18.93	1.4411	0.71	.Q	.	.	.	.
19.08	1.4497	0.70	.Q	.	.	.	.
19.23	1.4580	0.68	.Q	.	.	.	.
19.37	1.4661	0.66	.Q	.	.	.	.
19.52	1.4741	0.65	.Q	.	.	.	.
19.67	1.4819	0.64	.Q	.	.	.	.
19.81	1.4895	0.62	.Q	.	.	.	.
19.96	1.4970	0.61	.Q	.	.	.	.
20.11	1.5044	0.60	.Q	.	.	.	.
20.25	1.5116	0.59	.Q	.	.	.	.
20.40	1.5187	0.58	.Q	.	.	.	.
20.55	1.5257	0.57	.Q	.	.	.	.
20.69	1.5326	0.56	.Q	.	.	.	.
20.84	1.5393	0.55	.Q	.	.	.	.
20.99	1.5460	0.55	.Q	.	.	.	.
21.13	1.5526	0.54	.Q	.	.	.	.
21.28	1.5590	0.53	.Q	.	.	.	.
21.43	1.5654	0.52	.Q	.	.	.	.
21.57	1.5717	0.52	.Q	.	.	.	.
21.72	1.5779	0.51	.Q	.	.	.	.
21.87	1.5841	0.50	.Q	.	.	.	.
22.01	1.5901	0.50	Q	.	.	.	.
22.16	1.5961	0.49	Q	.	.	.	.
22.31	1.6020	0.49	Q	.	.	.	.
22.45	1.6079	0.48	Q	.	.	.	.
22.60	1.6137	0.47	Q	.	.	.	.
22.75	1.6194	0.47	Q	.	.	.	.
22.89	1.6250	0.46	Q	.	.	.	.
23.04	1.6306	0.46	Q	.	.	.	.
23.19	1.6362	0.45	Q	.	.	.	.
23.33	1.6417	0.45	Q	.	.	.	.
23.48	1.6471	0.45	Q	.	.	.	.
23.63	1.6525	0.44	Q	.	.	.	.
23.77	1.6578	0.44	Q	.	.	.	.
23.92	1.6631	0.43	Q	.	.	.	.
24.07	1.6683	0.43	Q	.	.	.	.
24.21	1.6709	0.00	Q	.	.	.	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1443.2
10%	255.2
20%	26.4
30%	17.6
40%	8.8
50%	8.8
60%	8.8
70%	8.8

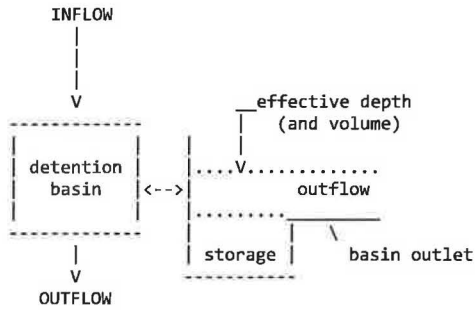


80% 8.8  
90% 8.8

Problem Descriptions:  
JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
100-YEAR DETENTION  
BUILDING 5 TRUCK YARD (NODE 171)

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FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.800  
DEAD STORAGE(AF) = 0.00  
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00  
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:

TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

* (FEET)	(ACRE-FEET)	STORAGE (CFS)	OUTFLOW (CFS)	** (FEET)	(ACRE-FEET)	**BASIN-DEPTH STORAGE (CFS)	OUTFLOW *
* 0.000	0.000	0.000	0.000**	0.220	0.002	0.002	1.060*
* 0.420	0.020	1.150**	0.620	0.620	0.050	0.050	1.230*
* 0.820	0.110	1.300**	1.020	1.020	0.200	0.200	1.370*
* 1.220	0.300	1.430**					

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BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.22	-0.00442	0.00842
3	0.42	0.01303	0.02697
4	0.62	0.04255	0.05745
5	0.82	0.10212	0.11788
6	1.02	0.19170	0.20830
7	1.22	0.29133	0.30867

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

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DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.013	0.000	0.00	0.00	0.00	0.000
0.160	0.000	0.43	0.14	0.33	0.001
0.307	0.000	0.43	0.14	0.66	0.001
0.453	0.000	0.43	0.14	0.66	0.001
0.600	0.000	0.43	0.14	0.66	0.001
0.747	0.000	0.44	0.14	0.66	0.001
0.893	0.000	0.44	0.14	0.67	0.001
1.040	0.000	0.44	0.14	0.67	0.001
1.187	0.000	0.44	0.14	0.67	0.001
1.333	0.000	0.44	0.14	0.68	0.001
1.480	0.000	0.45	0.14	0.68	0.001
1.627	0.000	0.45	0.14	0.68	0.001

1.773	0.000	0.45	0.14	0.69	0.001
1.920	0.000	0.45	0.14	0.69	0.001
2.067	0.000	0.46	0.14	0.69	0.001
2.213	0.000	0.46	0.14	0.70	0.001
2.360	0.000	0.46	0.15	0.70	0.001
2.507	0.000	0.46	0.15	0.70	0.001
2.653	0.000	0.47	0.15	0.71	0.001
2.800	0.000	0.47	0.15	0.71	0.001
2.947	0.000	0.47	0.15	0.72	0.001
3.093	0.000	0.47	0.15	0.72	0.001
3.240	0.000	0.48	0.15	0.72	0.001
3.387	0.000	0.48	0.15	0.73	0.001
3.533	0.000	0.48	0.15	0.73	0.001
3.680	0.000	0.48	0.15	0.74	0.001
3.827	0.000	0.49	0.15	0.74	0.001
3.973	0.000	0.49	0.15	0.74	0.001
4.120	0.000	0.49	0.16	0.75	0.001
4.267	0.000	0.49	0.16	0.75	0.001
4.413	0.000	0.50	0.16	0.76	0.001
4.560	0.000	0.50	0.16	0.76	0.001
4.707	0.000	0.51	0.16	0.77	0.001
4.853	0.000	0.51	0.16	0.77	0.001
5.000	0.000	0.51	0.16	0.78	0.001
5.147	0.000	0.51	0.16	0.78	0.001
5.293	0.000	0.52	0.16	0.79	0.001
5.440	0.000	0.52	0.16	0.79	0.001
5.587	0.000	0.53	0.17	0.80	0.002
5.733	0.000	0.53	0.17	0.80	0.002
5.880	0.000	0.53	0.17	0.81	0.002
6.027	0.000	0.54	0.17	0.81	0.002
6.173	0.000	0.54	0.17	0.82	0.002
6.320	0.000	0.54	0.17	0.83	0.002
6.467	0.000	0.55	0.17	0.83	0.002
6.613	0.000	0.55	0.17	0.84	0.002
6.760	0.000	0.56	0.18	0.84	0.002
6.907	0.000	0.56	0.18	0.85	0.002
7.053	0.000	0.57	0.18	0.86	0.002
7.200	0.000	0.57	0.18	0.86	0.002
7.347	0.000	0.57	0.18	0.87	0.002
7.493	0.000	0.58	0.18	0.88	0.002
7.640	0.000	0.58	0.18	0.89	0.002
7.787	0.000	0.59	0.19	0.89	0.002
7.933	0.000	0.59	0.19	0.90	0.002
8.080	0.000	0.60	0.19	0.91	0.002
8.227	0.000	0.60	0.19	0.92	0.002
8.373	0.000	0.61	0.19	0.93	0.002
8.520	0.000	0.62	0.20	0.93	0.002
8.667	0.000	0.62	0.20	0.94	0.002
8.813	0.000	0.63	0.20	0.95	0.002
8.960	0.000	0.63	0.20	0.96	0.002
9.107	0.000	0.64	0.20	0.97	0.002
9.253	0.000	0.65	0.20	0.98	0.002
9.400	0.000	0.65	0.21	0.99	0.002
9.547	0.000	0.66	0.21	1.00	0.002
9.693	0.000	0.67	0.21	1.01	0.002
9.840	0.000	0.67	0.21	1.02	0.002
9.987	0.000	0.68	0.22	1.04	0.002
10.133	0.000	0.69	0.22	1.05	0.002
10.280	0.000	0.70	0.22	1.06	0.002
10.427	0.000	0.71	0.22	1.06	0.002
10.573	0.000	0.72	0.22	1.06	0.002
10.720	0.000	0.73	0.22	1.06	0.002
10.867	0.000	0.74	0.23	1.06	0.003
11.013	0.000	0.75	0.23	1.06	0.003
11.160	0.000	0.76	0.23	1.06	0.003
11.307	0.000	0.77	0.23	1.06	0.003
11.453	0.000	0.78	0.23	1.06	0.003
11.600	0.000	0.79	0.23	1.07	0.003
11.747	0.000	0.81	0.23	1.07	0.003
11.893	0.000	0.82	0.24	1.07	0.003
12.040	0.000	0.84	0.24	1.07	0.004
12.187	0.000	0.99	0.26	1.07	0.005
12.333	0.000	1.03	0.26	1.08	0.006
12.480	0.000	1.04	0.26	1.08	0.006
12.627	0.000	1.06	0.27	1.08	0.006
12.773	0.000	1.07	0.27	1.08	0.006
12.920	0.000	1.10	0.27	1.08	0.007

13.067	0.000	1.11	0.28	1.08	0.007
13.213	0.000	1.14	0.28	1.09	0.008
13.360	0.000	1.15	0.29	1.09	0.008
13.507	0.000	1.19	0.30	1.09	0.010
13.653	0.000	1.20	0.32	1.10	0.011
13.800	0.000	1.24	0.34	1.11	0.012
13.947	0.000	1.27	0.36	1.12	0.014
14.093	0.000	1.29	0.38	1.13	0.016
14.240	0.000	1.28	0.40	1.14	0.018
14.387	0.000	1.34	0.42	1.15	0.020
14.533	0.000	1.38	0.44	1.15	0.023
14.680	0.000	1.45	0.46	1.16	0.027
14.827	0.000	1.49	0.49	1.17	0.030
14.973	0.000	1.60	0.52	1.18	0.035
15.120	0.000	1.66	0.56	1.20	0.041
15.267	0.000	1.81	0.61	1.22	0.048
15.413	0.000	1.92	0.64	1.23	0.057
15.560	0.000	1.60	0.66	1.24	0.061
15.707	0.000	1.80	0.68	1.25	0.068
15.853	0.000	2.50	0.73	1.26	0.083
16.000	0.000	3.50	0.82	1.28	0.110
16.147	0.000	11.48	1.08	1.34	0.232
16.293	0.000	2.07	1.10	1.39	0.241
16.440	0.000	1.56	1.11	1.39	0.243
16.587	0.000	1.73	1.11	1.40	0.247
16.733	0.000	1.54	1.12	1.40	0.248
16.880	0.000	1.41	1.12	1.40	0.249
17.027	0.000	1.31	1.11	1.40	0.247
17.173	0.000	1.29	1.11	1.40	0.246
17.320	0.000	1.22	1.11	1.40	0.244
17.467	0.000	1.17	1.10	1.40	0.241
17.613	0.000	1.12	1.10	1.39	0.238
17.760	0.000	1.08	1.09	1.39	0.234
17.907	0.000	1.05	1.08	1.39	0.230
18.053	0.000	1.02	1.07	1.39	0.226
18.200	0.000	0.83	1.06	1.38	0.219
18.347	0.000	0.80	1.04	1.38	0.212
18.493	0.000	0.77	1.03	1.37	0.205
18.640	0.000	0.75	1.01	1.37	0.197
18.787	0.000	0.73	1.00	1.36	0.189
18.933	0.000	0.71	0.98	1.36	0.182
19.080	0.000	0.70	0.96	1.35	0.174
19.227	0.000	0.68	0.94	1.35	0.166
19.373	0.000	0.66	0.93	1.34	0.157
19.520	0.000	0.65	0.91	1.33	0.149
19.667	0.000	0.64	0.89	1.33	0.141
19.813	0.000	0.62	0.87	1.32	0.132
19.960	0.000	0.61	0.85	1.31	0.124
20.107	0.000	0.60	0.83	1.31	0.115
20.253	0.000	0.59	0.81	1.30	0.107
20.400	0.000	0.58	0.78	1.29	0.098
20.547	0.000	0.57	0.75	1.28	0.089
20.693	0.000	0.56	0.72	1.27	0.081
20.840	0.000	0.55	0.69	1.26	0.072
20.987	0.000	0.55	0.67	1.25	0.064
21.133	0.000	0.54	0.64	1.24	0.055
21.280	0.000	0.53	0.60	1.23	0.047
21.427	0.000	0.52	0.54	1.21	0.038
21.573	0.000	0.52	0.49	1.19	0.030
21.720	0.000	0.51	0.43	1.17	0.022
21.867	0.000	0.50	0.36	1.14	0.015
22.013	0.000	0.50	0.28	1.10	0.007
22.160	0.000	0.49	0.17	0.95	0.002
22.307	0.000	0.49	0.15	0.78	0.001
22.453	0.000	0.48	0.15	0.74	0.001
22.600	0.000	0.47	0.15	0.73	0.001
22.747	0.000	0.47	0.15	0.72	0.001
22.893	0.000	0.46	0.15	0.71	0.001
23.040	0.000	0.46	0.15	0.70	0.001
23.187	0.000	0.45	0.14	0.70	0.001
23.333	0.000	0.45	0.14	0.69	0.001
23.480	0.000	0.45	0.14	0.68	0.001
23.627	0.000	0.44	0.14	0.68	0.001
23.773	0.000	0.44	0.14	0.67	0.001
23.920	0.000	0.43	0.14	0.66	0.001
24.067	0.000	0.43	0.14	0.66	0.001
24.213	0.000	0.00	0.00	0.33	0.000

←  $Q_{100}(\text{DISCHARGE}) = 1.4 \text{ CFS}$   
 PONDING DEPTH = 1.12 FT  
 VOLUME STORED = 0.249 AC-FT

24.360	0.000	0.00	0.00	0.00	BLDG5.txt
					0.000

---

Job #3654 Grove Business Center, Ontario  
Volume in Building 6 Truck Yard, Node 151

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
667.06	0.00	0				
			14	14	0.00	1.8
667.20	0.14	200				
			314	328	0.01	2.0
667.40	0.34	2940				
			1145	1473	0.03	2.1
667.60	0.54	8510				
			2212	3685	0.08	2.2
667.80	0.74	13610				
			3219	6904	0.16	2.4
668.00	0.94	18580				

\*\*\*\*\*  
 SMALL AREA UNIT HYDROGRAPH MODEL  
 \*\*\*\*\*

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Analysis prepared by:

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 Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 6 TRUCK YARD (NODE 151)  
 -----

RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90  
 TOTAL CATCHMENT AREA(ACRES) = 4.00  
 SOIL-LOSS RATE, Fm,(INCH/HR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 TIME OF CONCENTRATION(MIN.) = 8.70  
 SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA  
 USER SPECIFIED RAINFALL VALUES ARE USED  
 RETURN FREQUENCY(YEARS) = 100  
 5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.37  
 30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.75  
 1-HOUR POINT RAINFALL VALUE(INCHES) = 1.00  
 3-HOUR POINT RAINFALL VALUE(INCHES) = 1.90  
 6-HOUR POINT RAINFALL VALUE(INCHES) = 2.90  
 24-HOUR POINT RAINFALL VALUE(INCHES) = 5.90

-----  
 TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 1.63  
 TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 0.34

\*\*\*\*\*

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	5.0	10.0	15.0	20.0
0.05	0.0000	0.00	Q	.	.	.	.
0.20	0.0025	0.42	Q	.	.	.	.
0.34	0.0075	0.42	Q	.	.	.	.
0.49	0.0126	0.42	Q	.	.	.	.
0.63	0.0177	0.42	Q	.	.	.	.
0.78	0.0228	0.43	Q	.	.	.	.
0.92	0.0279	0.43	Q	.	.	.	.
1.07	0.0330	0.43	Q	.	.	.	.
1.21	0.0382	0.43	Q	.	.	.	.
1.36	0.0434	0.43	Q	.	.	.	.
1.50	0.0486	0.44	Q	.	.	.	.
1.65	0.0538	0.44	Q	.	.	.	.
1.79	0.0591	0.44	Q	.	.	.	.
1.94	0.0644	0.44	Q	.	.	.	.
2.08	0.0697	0.44	Q	.	.	.	.
2.23	0.0751	0.45	Q	.	.	.	.
2.37	0.0804	0.45	Q	.	.	.	.
2.52	0.0858	0.45	Q	.	.	.	.
2.66	0.0913	0.45	Q	.	.	.	.
2.81	0.0967	0.46	Q	.	.	.	.
2.95	0.1022	0.46	Q	.	.	.	.
3.10	0.1077	0.46	Q	.	.	.	.
3.24	0.1133	0.46	Q	.	.	.	.
3.39	0.1189	0.47	Q	.	.	.	.
3.53	0.1245	0.47	Q	.	.	.	.
3.68	0.1301	0.47	Q	.	.	.	.
3.82	0.1358	0.47	Q	.	.	.	.
3.97	0.1415	0.48	Q	.	.	.	.
4.11	0.1472	0.48	Q	.	.	.	.

BLDG6.txt

4.26	0.1530	0.48	Q	.	.	.	.
4.40	0.1588	0.49	Q	.	.	.	.
4.55	0.1646	0.49	Q	.	.	.	.
4.69	0.1705	0.49	Q	.	.	.	.
4.84	0.1764	0.50	Q	.	.	.	.
4.98	0.1824	0.50	Q	.	.	.	.
5.12	0.1884	0.50	.Q	.	.	.	.
5.27	0.1944	0.50	.Q	.	.	.	.
5.42	0.2005	0.51	.Q	.	.	.	.
5.56	0.2066	0.51	.Q	.	.	.	.
5.71	0.2127	0.52	.Q	.	.	.	.
5.85	0.2189	0.52	.Q	.	.	.	.
6.00	0.2252	0.52	.Q	.	.	.	.
6.14	0.2314	0.53	.Q	.	.	.	.
6.29	0.2378	0.53	.Q	.	.	.	.
6.43	0.2441	0.53	.Q	.	.	.	.
6.57	0.2505	0.54	.Q	.	.	.	.
6.72	0.2570	0.54	.Q	.	.	.	.
6.87	0.2635	0.55	.Q	.	.	.	.
7.01	0.2701	0.55	.Q	.	.	.	.
7.16	0.2767	0.55	.Q	.	.	.	.
7.30	0.2833	0.56	.Q	.	.	.	.
7.45	0.2901	0.56	.Q	.	.	.	.
7.59	0.2968	0.57	.Q	.	.	.	.
7.74	0.3037	0.57	.Q	.	.	.	.
7.88	0.3105	0.58	.Q	.	.	.	.
8.02	0.3175	0.58	.Q	.	.	.	.
8.17	0.3245	0.59	.Q	.	.	.	.
8.32	0.3316	0.59	.Q	.	.	.	.
8.46	0.3387	0.60	.Q	.	.	.	.
8.60	0.3459	0.60	.Q	.	.	.	.
8.75	0.3532	0.61	.Q	.	.	.	.
8.90	0.3605	0.62	.Q	.	.	.	.
9.04	0.3679	0.62	.Q	.	.	.	.
9.19	0.3754	0.63	.Q	.	.	.	.
9.33	0.3830	0.63	.Q	.	.	.	.
9.48	0.3906	0.64	.Q	.	.	.	.
9.62	0.3983	0.65	.Q	.	.	.	.
9.77	0.4061	0.66	.Q	.	.	.	.
9.91	0.4140	0.66	.Q	.	.	.	.
10.05	0.4220	0.67	.Q	.	.	.	.
10.20	0.4301	0.68	.Q	.	.	.	.
10.35	0.4383	0.69	.Q	.	.	.	.
10.49	0.4465	0.69	.Q	.	.	.	.
10.64	0.4549	0.71	.Q	.	.	.	.
10.78	0.4634	0.71	.Q	.	.	.	.
10.93	0.4720	0.72	.Q	.	.	.	.
11.07	0.4807	0.73	.Q	.	.	.	.
11.22	0.4896	0.75	.Q	.	.	.	.
11.36	0.4986	0.75	.Q	.	.	.	.
11.51	0.5077	0.77	.Q	.	.	.	.
11.65	0.5169	0.78	.Q	.	.	.	.
11.80	0.5263	0.79	.Q	.	.	.	.
11.94	0.5359	0.80	.Q	.	.	.	.
12.09	0.5459	0.88	.Q	.	.	.	.
12.23	0.5571	0.99	.Q	.	.	.	.
12.38	0.5690	1.01	. Q	.	.	.	.
12.52	0.5811	1.02	. Q	.	.	.	.
12.66	0.5935	1.04	. Q	.	.	.	.
12.81	0.6060	1.05	. Q	.	.	.	.
12.95	0.6187	1.07	. Q	.	.	.	.
13.10	0.6316	1.09	. Q	.	.	.	.
13.24	0.6448	1.12	. Q	.	.	.	.
13.39	0.6583	1.13	. Q	.	.	.	.
13.53	0.6720	1.16	. Q	.	.	.	.
13.68	0.6861	1.18	. Q	.	.	.	.
13.82	0.7005	1.22	. Q	.	.	.	.
13.97	0.7152	1.24	. Q	.	.	.	.
14.12	0.7301	1.25	. Q	.	.	.	.
14.26	0.7451	1.26	. Q	.	.	.	.
14.40	0.7605	1.32	. Q	.	.	.	.
14.55	0.7765	1.35	. Q	.	.	.	.
14.70	0.7931	1.42	. Q	.	.	.	.
14.84	0.8104	1.47	. Q	.	.	.	.
14.98	0.8286	1.57	. Q	.	.	.	.
15.13	0.8477	1.63	. Q	.	.	.	.
15.27	0.8681	1.78	. Q	.	.	.	.

15.42	0.8900	1.88	. Q	.	.	.	.
15.57	0.9107	1.57	. Q	.	.	.	.
15.71	0.9307	1.77	. Q	.	.	.	.
15.85	0.9560	2.45	. Q	.	.	.	.
16.00	0.9914	3.44	. Q	.	.	.	.
16.15	1.0796	11.28	. Q	.	. Q	.	.
16.29	1.1593	2.03	. Q	.	.	.	.
16.43	1.1803	1.48	. Q	.	.	.	.
16.58	1.1994	1.70	. Q	.	.	.	.
16.73	1.2186	1.51	. Q	.	.	.	.
16.87	1.2359	1.38	. Q	.	.	.	.
17.02	1.2519	1.29	. Q	.	.	.	.
17.16	1.2672	1.26	. Q	.	.	.	.
17.31	1.2819	1.20	. Q	.	.	.	.
17.45	1.2960	1.15	. Q	.	.	.	.
17.59	1.3095	1.10	. Q	.	.	.	.
17.74	1.3224	1.06	. Q	.	.	.	.
17.89	1.3349	1.03	. Q	.	.	.	.
18.03	1.3471	1.00	. Q	.	.	.	.
18.17	1.3579	0.81	. Q	.	.	.	.
18.32	1.3674	0.78	. Q	.	.	.	.
18.47	1.3767	0.76	. Q	.	.	.	.
18.61	1.3857	0.74	. Q	.	.	.	.
18.76	1.3944	0.72	. Q	.	.	.	.
18.90	1.4029	0.70	. Q	.	.	.	.
19.05	1.4112	0.68	. Q	.	.	.	.
19.19	1.4192	0.67	. Q	.	.	.	.
19.33	1.4271	0.65	. Q	.	.	.	.
19.48	1.4348	0.64	. Q	.	.	.	.
19.62	1.4424	0.62	. Q	.	.	.	.
19.77	1.4498	0.61	. Q	.	.	.	.
19.92	1.4571	0.60	. Q	.	.	.	.
20.06	1.4642	0.59	. Q	.	.	.	.
20.20	1.4712	0.58	. Q	.	.	.	.
20.35	1.4781	0.57	. Q	.	.	.	.
20.49	1.4849	0.56	. Q	.	.	.	.
20.64	1.4916	0.55	. Q	.	.	.	.
20.78	1.4981	0.54	. Q	.	.	.	.
20.93	1.5046	0.54	. Q	.	.	.	.
21.08	1.5110	0.53	. Q	.	.	.	.
21.22	1.5172	0.52	. Q	.	.	.	.
21.36	1.5234	0.51	. Q	.	.	.	.
21.51	1.5295	0.51	. Q	.	.	.	.
21.66	1.5356	0.50	. Q	.	.	.	.
21.80	1.5415	0.49	. Q	.	.	.	.
21.94	1.5474	0.49	. Q	.	.	.	.
22.09	1.5532	0.48	. Q	.	.	.	.
22.23	1.5589	0.48	. Q	.	.	.	.
22.38	1.5646	0.47	. Q	.	.	.	.
22.52	1.5702	0.47	. Q	.	.	.	.
22.67	1.5758	0.46	. Q	.	.	.	.
22.82	1.5812	0.46	. Q	.	.	.	.
22.96	1.5867	0.45	. Q	.	.	.	.
23.11	1.5921	0.45	. Q	.	.	.	.
23.25	1.5974	0.44	. Q	.	.	.	.
23.39	1.6026	0.44	. Q	.	.	.	.
23.54	1.6079	0.43	. Q	.	.	.	.
23.68	1.6130	0.43	. Q	.	.	.	.
23.83	1.6181	0.43	. Q	.	.	.	.
23.98	1.6232	0.42	. Q	.	.	.	.
24.12	1.6282	0.42	. Q	.	.	.	.
24.26	1.6307	0.00	. Q	.	.	.	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1444.2
10%	252.3
20%	26.1
30%	17.4
40%	8.7
50%	8.7

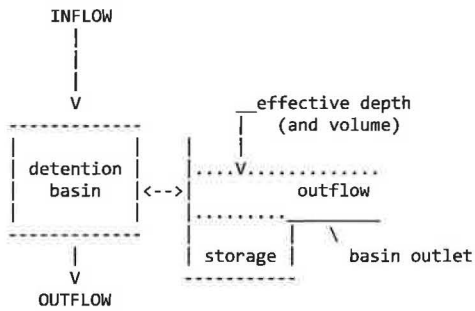


60% 8.7  
 70% 8.7  
 80% 8.7  
 90% 8.7

Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 6 TRUCK YARD (NODE 151)

-----  
 FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.700  
 DEAD STORAGE(AF) = 0.00  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.00  
 ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:

TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 6

* (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	** (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)
* 0.000	0.000	0.000**	0.140	0.001	1.800*
* 0.340	0.010	2.000**	0.540	0.030	2.100*
* 0.740	0.080	2.200**	0.940	0.160	2.400*

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-0*DT/2} (ACRE-FEET)	{S+0*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.14	-0.00979	0.01179
3	0.34	-0.00198	0.02198
4	0.54	0.01742	0.04258
5	0.74	0.06682	0.09318
6	0.94	0.14562	0.17438

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.050	0.000	0.00	0.00	0.00	0.000
0.195	0.000	0.42	0.06	0.38	0.000
0.340	0.000	0.42	0.06	0.77	0.000
0.485	0.000	0.42	0.06	0.77	0.000
0.630	0.000	0.42	0.06	0.77	0.000
0.775	0.000	0.43	0.06	0.78	0.000
0.920	0.000	0.43	0.06	0.78	0.000
1.065	0.000	0.43	0.06	0.79	0.000
1.210	0.000	0.43	0.06	0.79	0.000
1.355	0.000	0.43	0.06	0.79	0.000
1.500	0.000	0.44	0.06	0.80	0.000
1.645	0.000	0.44	0.06	0.80	0.000

## BLDG6.txt

1.790	0.000	0.44	0.06	0.80	0.000
1.935	0.000	0.44	0.06	0.81	0.000
2.080	0.000	0.44	0.06	0.81	0.000
2.225	0.000	0.45	0.06	0.82	0.000
2.370	0.000	0.45	0.06	0.82	0.000
2.515	0.000	0.45	0.06	0.83	0.000
2.660	0.000	0.45	0.06	0.83	0.000
2.805	0.000	0.46	0.07	0.83	0.000
2.950	0.000	0.46	0.07	0.84	0.000
3.095	0.000	0.46	0.07	0.84	0.000
3.240	0.000	0.46	0.07	0.85	0.000
3.385	0.000	0.47	0.07	0.85	0.000
3.530	0.000	0.47	0.07	0.86	0.000
3.675	0.000	0.47	0.07	0.86	0.000
3.820	0.000	0.47	0.07	0.87	0.000
3.965	0.000	0.48	0.07	0.87	0.000
4.110	0.000	0.48	0.07	0.88	0.000
4.255	0.000	0.48	0.07	0.88	0.000
4.400	0.000	0.49	0.07	0.89	0.000
4.545	0.000	0.49	0.07	0.89	0.000
4.690	0.000	0.49	0.07	0.90	0.000
4.835	0.000	0.50	0.07	0.90	0.001
4.980	0.000	0.50	0.07	0.91	0.001
5.125	0.000	0.50	0.07	0.91	0.001
5.270	0.000	0.50	0.07	0.92	0.001
5.415	0.000	0.51	0.07	0.93	0.001
5.560	0.000	0.51	0.07	0.93	0.001
5.705	0.000	0.52	0.07	0.94	0.001
5.850	0.000	0.52	0.07	0.95	0.001
5.995	0.000	0.52	0.07	0.95	0.001
6.140	0.000	0.53	0.07	0.96	0.001
6.285	0.000	0.53	0.08	0.97	0.001
6.430	0.000	0.53	0.08	0.97	0.001
6.575	0.000	0.54	0.08	0.98	0.001
6.720	0.000	0.54	0.08	0.99	0.001
6.865	0.000	0.55	0.08	0.99	0.001
7.010	0.000	0.55	0.08	1.00	0.001
7.155	0.000	0.55	0.08	1.01	0.001
7.300	0.000	0.56	0.08	1.02	0.001
7.445	0.000	0.56	0.08	1.03	0.001
7.590	0.000	0.57	0.08	1.03	0.001
7.735	0.000	0.57	0.08	1.04	0.001
7.880	0.000	0.58	0.08	1.05	0.001
8.025	0.000	0.58	0.08	1.06	0.001
8.170	0.000	0.59	0.08	1.07	0.001
8.315	0.000	0.59	0.08	1.08	0.001
8.460	0.000	0.60	0.09	1.09	0.001
8.605	0.000	0.60	0.09	1.10	0.001
8.750	0.000	0.61	0.09	1.11	0.001
8.895	0.000	0.62	0.09	1.12	0.001
9.040	0.000	0.62	0.09	1.13	0.001
9.185	0.000	0.63	0.09	1.14	0.001
9.330	0.000	0.63	0.09	1.15	0.001
9.475	0.000	0.64	0.09	1.17	0.001
9.620	0.000	0.65	0.09	1.18	0.001
9.765	0.000	0.66	0.09	1.19	0.001
9.910	0.000	0.66	0.09	1.21	0.001
10.055	0.000	0.67	0.10	1.22	0.001
10.200	0.000	0.68	0.10	1.23	0.001
10.345	0.000	0.69	0.10	1.25	0.001
10.490	0.000	0.69	0.10	1.26	0.001
10.635	0.000	0.71	0.10	1.28	0.001
10.780	0.000	0.71	0.10	1.30	0.001
10.925	0.000	0.72	0.10	1.31	0.001
11.070	0.000	0.73	0.10	1.33	0.001
11.215	0.000	0.75	0.11	1.35	0.001
11.360	0.000	0.75	0.11	1.37	0.001
11.505	0.000	0.77	0.11	1.39	0.001
11.650	0.000	0.78	0.11	1.41	0.001
11.795	0.000	0.79	0.11	1.44	0.001
11.940	0.000	0.80	0.11	1.46	0.001
12.085	0.000	0.88	0.13	1.54	0.001
12.230	0.000	0.99	0.14	1.70	0.001
12.375	0.000	1.01	0.15	1.80	0.001
12.520	0.000	1.02	0.15	1.81	0.001
12.665	0.000	1.04	0.15	1.81	0.002
12.810	0.000	1.05	0.16	1.81	0.002

12.955	0.000	1.07	0.16	1.82	0.002
13.100	0.000	1.09	0.16	1.82	0.002
13.245	0.000	1.12	0.17	1.83	0.002
13.390	0.000	1.13	0.17	1.83	0.003
13.535	0.000	1.16	0.18	1.84	0.003
13.680	0.000	1.18	0.19	1.84	0.003
13.825	0.000	1.22	0.20	1.85	0.003
13.970	0.000	1.24	0.20	1.86	0.004
14.115	0.000	1.25	0.20	1.86	0.004
14.260	0.000	1.26	0.20	1.86	0.004
14.405	0.000	1.32	0.22	1.87	0.005
14.550	0.000	1.35	0.23	1.88	0.005
14.695	0.000	1.42	0.24	1.89	0.006
14.840	0.000	1.47	0.25	1.91	0.006
14.985	0.000	1.57	0.28	1.93	0.007
15.130	0.000	1.63	0.29	1.94	0.008
15.275	0.000	1.78	0.33	1.97	0.009
15.420	0.000	1.88	0.35	1.99	0.011
15.565	0.000	1.57	0.28	1.97	0.007
15.710	0.000	1.77	0.32	1.96	0.009
15.855	0.000	2.45	0.41	2.01	0.017
16.000	0.000	3.44	0.55	2.07	0.034
16.145	0.000	11.28	0.90	2.23	0.142
16.290	0.000	2.03	0.89	2.35	0.138
16.435	0.000	1.48	0.86	2.33	0.128
16.580	0.000	1.70	0.84	2.31	0.121
16.725	0.000	1.51	0.82	2.29	0.111
16.870	0.000	1.38	0.79	2.27	0.101
17.015	0.000	1.29	0.76	2.24	0.089
17.160	0.000	1.26	0.73	2.21	0.078
17.305	0.000	1.20	0.68	2.18	0.066
17.450	0.000	1.15	0.64	2.16	0.054
17.595	0.000	1.10	0.59	2.14	0.042
17.740	0.000	1.06	0.53	2.11	0.029
17.885	0.000	1.03	0.41	2.06	0.017
18.030	0.000	1.00	0.23	1.96	0.005
18.175	0.000	0.81	0.12	1.69	0.001
18.320	0.000	0.78	0.11	1.46	0.001
18.465	0.000	0.76	0.11	1.41	0.001
18.610	0.000	0.74	0.11	1.37	0.001
18.755	0.000	0.72	0.10	1.33	0.001
18.900	0.000	0.70	0.10	1.30	0.001
19.045	0.000	0.68	0.10	1.26	0.001
19.190	0.000	0.67	0.09	1.23	0.001
19.335	0.000	0.65	0.09	1.21	0.001
19.480	0.000	0.64	0.09	1.18	0.001
19.625	0.000	0.62	0.09	1.16	0.001
19.770	0.000	0.61	0.09	1.13	0.001
19.915	0.000	0.60	0.09	1.11	0.001
20.060	0.000	0.59	0.08	1.09	0.001
20.205	0.000	0.58	0.08	1.07	0.001
20.350	0.000	0.57	0.08	1.05	0.001
20.495	0.000	0.56	0.08	1.03	0.001
20.640	0.000	0.55	0.08	1.02	0.001
20.785	0.000	0.54	0.08	1.00	0.001
20.930	0.000	0.54	0.08	0.99	0.001
21.075	0.000	0.53	0.08	0.97	0.001
21.220	0.000	0.52	0.07	0.96	0.001
21.365	0.000	0.51	0.07	0.95	0.001
21.510	0.000	0.51	0.07	0.93	0.001
21.655	0.000	0.50	0.07	0.92	0.001
21.800	0.000	0.49	0.07	0.91	0.001
21.945	0.000	0.49	0.07	0.90	0.000
22.090	0.000	0.48	0.07	0.89	0.000
22.235	0.000	0.48	0.07	0.88	0.000
22.380	0.000	0.47	0.07	0.87	0.000
22.525	0.000	0.47	0.07	0.86	0.000
22.670	0.000	0.46	0.07	0.85	0.000
22.815	0.000	0.46	0.06	0.84	0.000
22.960	0.000	0.45	0.06	0.83	0.000
23.105	0.000	0.45	0.06	0.82	0.000
23.250	0.000	0.44	0.06	0.81	0.000
23.395	0.000	0.44	0.06	0.80	0.000
23.540	0.000	0.43	0.06	0.80	0.000
23.685	0.000	0.43	0.06	0.79	0.000
23.830	0.000	0.43	0.06	0.78	0.000
23.975	0.000	0.42	0.06	0.77	0.000

←  $Q_{100}(\text{DISCHARGE}) = 2.3 \text{ cfs}$   
 PONDING DEPTH = 0.90 FT  
 VOLUME STORED = 0.142 AC-FT

					BLDG6.txt
24.120	0.000	0.42	0.06	0.77	0.000
24.265	0.000	0.00	0.00	0.38	0.000
24.410	0.000	0.00	0.00	0.00	0.000

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Job #3654 Grove Business Center, Ontario  
 Volume in Building 7 Truck Yard, Node 131

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
667.29	0.00	0	7	7	0.00	1.01
667.40	0.11	120	245	252	0.01	1.10
667.60	0.31	2330	1019	1271	0.03	1.18
667.80	0.51	7860	2114	3385	0.08	1.26
668.00	0.71	13280	3122	6507	0.15	1.33
668.20	0.91	17940	4078	10585	0.24	1.40
668.40	1.11	22840	2939	13523	0.31	1.44
668.52	1.23	26140				

\*\*\*\*\*  
 SMALL AREA UNIT HYDROGRAPH MODEL  
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Analysis prepared by:

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Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 7 TRUCK YARD (NODE 131)

RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90  
 TOTAL CATCHMENT AREA(ACRES) = 3.75  
 SOIL-LOSS RATE, Fm, (INCH/HR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 TIME OF CONCENTRATION(MIN.) = 8.10  
 SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA  
 USER SPECIFIED RAINFALL VALUES ARE USED  
 RETURN FREQUENCY(YEARS) = 100  
 5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.37  
 30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.75  
 1-HOUR POINT RAINFALL VALUE(INCHES) = 1.00  
 3-HOUR POINT RAINFALL VALUE(INCHES) = 1.90  
 6-HOUR POINT RAINFALL VALUE(INCHES) = 2.90  
 24-HOUR POINT RAINFALL VALUE(INCHES) = 5.90

TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 1.53  
 TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 0.32

\*\*\*\*\*

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	5.0	10.0	15.0	20.0
0.07	0.0000	0.00	Q	.	.	.	.
0.20	0.0022	0.39	Q	.	.	.	.
0.34	0.0066	0.39	Q	.	.	.	.
0.47	0.0110	0.40	Q	.	.	.	.
0.61	0.0154	0.40	Q	.	.	.	.
0.74	0.0199	0.40	Q	.	.	.	.
0.88	0.0243	0.40	Q	.	.	.	.
1.01	0.0288	0.40	Q	.	.	.	.
1.15	0.0333	0.40	Q	.	.	.	.
1.28	0.0378	0.41	Q	.	.	.	.
1.42	0.0424	0.41	Q	.	.	.	.
1.55	0.0469	0.41	Q	.	.	.	.
1.69	0.0515	0.41	Q	.	.	.	.
1.82	0.0561	0.41	Q	.	.	.	.
1.96	0.0608	0.42	Q	.	.	.	.
2.09	0.0654	0.42	Q	.	.	.	.
2.23	0.0701	0.42	Q	.	.	.	.
2.36	0.0748	0.42	Q	.	.	.	.
2.50	0.0795	0.42	Q	.	.	.	.
2.63	0.0842	0.43	Q	.	.	.	.
2.77	0.0890	0.43	Q	.	.	.	.
2.90	0.0938	0.43	Q	.	.	.	.
3.04	0.0986	0.43	Q	.	.	.	.
3.17	0.1034	0.43	Q	.	.	.	.
3.31	0.1083	0.44	Q	.	.	.	.
3.44	0.1131	0.44	Q	.	.	.	.
3.58	0.1181	0.44	Q	.	.	.	.
3.71	0.1230	0.44	Q	.	.	.	.
3.85	0.1279	0.45	Q	.	.	.	.

3.98	0.1329	0.45	Q	.	.	.	.
4.12	0.1379	0.45	Q	.	.	.	.
4.25	0.1430	0.45	Q	.	.	.	.
4.39	0.1481	0.46	Q	.	.	.	.
4.52	0.1532	0.46	Q	.	.	.	.
4.66	0.1583	0.46	Q	.	.	.	.
4.79	0.1634	0.46	Q	.	.	.	.
4.93	0.1686	0.47	Q	.	.	.	.
5.06	0.1738	0.47	Q	.	.	.	.
5.20	0.1791	0.47	Q	.	.	.	.
5.33	0.1844	0.48	Q	.	.	.	.
5.47	0.1897	0.48	Q	.	.	.	.
5.60	0.1950	0.48	Q	.	.	.	.
5.74	0.2004	0.48	Q	.	.	.	.
5.87	0.2058	0.49	Q	.	.	.	.
6.01	0.2113	0.49	Q	.	.	.	.
6.14	0.2168	0.49	Q	.	.	.	.
6.28	0.2223	0.50	Q	.	.	.	.
6.41	0.2278	0.50	.Q	.	.	.	.
6.55	0.2334	0.50	.Q	.	.	.	.
6.68	0.2391	0.51	.Q	.	.	.	.
6.82	0.2447	0.51	.Q	.	.	.	.
6.95	0.2504	0.51	.Q	.	.	.	.
7.09	0.2562	0.52	.Q	.	.	.	.
7.22	0.2620	0.52	.Q	.	.	.	.
7.36	0.2678	0.52	.Q	.	.	.	.
7.49	0.2737	0.53	.Q	.	.	.	.
7.63	0.2796	0.53	.Q	.	.	.	.
7.76	0.2856	0.54	.Q	.	.	.	.
7.90	0.2916	0.54	.Q	.	.	.	.
8.03	0.2977	0.55	.Q	.	.	.	.
8.17	0.3038	0.55	.Q	.	.	.	.
8.30	0.3100	0.56	.Q	.	.	.	.
8.44	0.3162	0.56	.Q	.	.	.	.
8.57	0.3225	0.57	.Q	.	.	.	.
8.71	0.3288	0.57	.Q	.	.	.	.
8.84	0.3352	0.58	.Q	.	.	.	.
8.98	0.3417	0.58	.Q	.	.	.	.
9.11	0.3482	0.59	.Q	.	.	.	.
9.25	0.3548	0.59	.Q	.	.	.	.
9.38	0.3614	0.60	.Q	.	.	.	.
9.52	0.3681	0.60	.Q	.	.	.	.
9.65	0.3749	0.61	.Q	.	.	.	.
9.79	0.3817	0.61	.Q	.	.	.	.
9.93	0.3886	0.62	.Q	.	.	.	.
10.06	0.3956	0.63	.Q	.	.	.	.
10.20	0.4026	0.64	.Q	.	.	.	.
10.33	0.4098	0.64	.Q	.	.	.	.
10.46	0.4170	0.65	.Q	.	.	.	.
10.60	0.4243	0.66	.Q	.	.	.	.
10.73	0.4317	0.67	.Q	.	.	.	.
10.87	0.4392	0.67	.Q	.	.	.	.
11.01	0.4467	0.68	.Q	.	.	.	.
11.14	0.4544	0.69	.Q	.	.	.	.
11.27	0.4622	0.70	.Q	.	.	.	.
11.41	0.4701	0.71	.Q	.	.	.	.
11.55	0.4781	0.72	.Q	.	.	.	.
11.68	0.4862	0.73	.Q	.	.	.	.
11.81	0.4944	0.75	.Q	.	.	.	.
11.95	0.5028	0.75	.Q	.	.	.	.
12.09	0.5116	0.83	.Q	.	.	.	.
12.22	0.5214	0.92	.Q	.	.	.	.
12.35	0.5318	0.94	.Q	.	.	.	.
12.49	0.5424	0.95	.Q	.	.	.	.
12.62	0.5531	0.97	.Q	.	.	.	.
12.76	0.5640	0.98	.Q	.	.	.	.
12.90	0.5750	1.00	. Q	.	.	.	.
13.03	0.5862	1.01	. Q	.	.	.	.
13.16	0.5976	1.04	. Q	.	.	.	.
13.30	0.6093	1.05	. Q	.	.	.	.
13.43	0.6211	1.08	. Q	.	.	.	.
13.57	0.6332	1.09	. Q	.	.	.	.
13.70	0.6455	1.12	. Q	.	.	.	.
13.84	0.6581	1.14	. Q	.	.	.	.
13.98	0.6710	1.18	. Q	.	.	.	.
14.11	0.6842	1.18	. Q	.	.	.	.
14.24	0.6974	1.19	. Q	.	.	.	.

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14.38	0.7109	1.21	. Q	.	.	.	.
14.52	0.7247	1.27	. Q	.	.	.	.
14.65	0.7391	1.30	. Q	.	.	.	.
14.78	0.7540	1.37	. Q	.	.	.	.
14.92	0.7695	1.42	. Q	.	.	.	.
15.05	0.7859	1.51	. Q	.	.	.	.
15.19	0.8031	1.57	. Q	.	.	.	.
15.32	0.8215	1.72	. Q	.	.	.	.
15.46	0.8399	1.59	. Q	.	.	.	.
15.60	0.8574	1.54	. Q	.	.	.	.
15.73	0.8757	1.74	. Q	.	.	.	.
15.87	0.8988	2.41	. Q	.	.	.	.
16.00	0.9311	3.38	. Q	.	.	.	.
16.14	1.0115	11.05	.	.	. Q	.	.
16.27	1.0841	1.96	. Q	.	.	.	.
16.41	1.1028	1.39	. Q	.	.	.	.
16.54	1.1197	1.64	. Q	.	.	.	.
16.67	1.1370	1.46	. Q	.	.	.	.
16.81	1.1526	1.34	. Q	.	.	.	.
16.94	1.1670	1.24	. Q	.	.	.	.
17.08	1.1804	1.17	. Q	.	.	.	.
17.22	1.1934	1.16	. Q	.	.	.	.
17.35	1.2060	1.11	. Q	.	.	.	.
17.48	1.2181	1.06	. Q	.	.	.	.
17.62	1.2297	1.02	. Q	.	.	.	.
17.76	1.2409	0.99	. Q	.	.	.	.
17.89	1.2518	0.96	. Q	.	.	.	.
18.02	1.2624	0.93	. Q	.	.	.	.
18.16	1.2718	0.76	. Q	.	.	.	.
18.30	1.2802	0.74	. Q	.	.	.	.
18.43	1.2883	0.72	. Q	.	.	.	.
18.57	1.2962	0.70	. Q	.	.	.	.
18.70	1.3038	0.68	. Q	.	.	.	.
18.83	1.3113	0.66	. Q	.	.	.	.
18.97	1.3186	0.65	. Q	.	.	.	.
19.11	1.3258	0.63	. Q	.	.	.	.
19.24	1.3327	0.62	. Q	.	.	.	.
19.38	1.3396	0.61	. Q	.	.	.	.
19.51	1.3463	0.59	. Q	.	.	.	.
19.64	1.3528	0.58	. Q	.	.	.	.
19.78	1.3593	0.57	. Q	.	.	.	.
19.92	1.3656	0.56	. Q	.	.	.	.
20.05	1.3718	0.55	. Q	.	.	.	.
20.18	1.3780	0.54	. Q	.	.	.	.
20.32	1.3840	0.54	. Q	.	.	.	.
20.45	1.3899	0.53	. Q	.	.	.	.
20.59	1.3958	0.52	. Q	.	.	.	.
20.73	1.4015	0.51	. Q	.	.	.	.
20.86	1.4072	0.50	. Q	.	.	.	.
21.00	1.4128	0.50	. Q	.	.	.	.
21.13	1.4183	0.49	. Q	.	.	.	.
21.27	1.4238	0.49	. Q	.	.	.	.
21.40	1.4291	0.48	. Q	.	.	.	.
21.53	1.4344	0.47	. Q	.	.	.	.
21.67	1.4397	0.47	. Q	.	.	.	.
21.81	1.4449	0.46	. Q	.	.	.	.
21.94	1.4500	0.46	. Q	.	.	.	.
22.08	1.4551	0.45	. Q	.	.	.	.
22.21	1.4601	0.45	. Q	.	.	.	.
22.35	1.4651	0.44	. Q	.	.	.	.
22.48	1.4700	0.44	. Q	.	.	.	.
22.61	1.4748	0.43	. Q	.	.	.	.
22.75	1.4796	0.43	. Q	.	.	.	.
22.89	1.4844	0.42	. Q	.	.	.	.
23.02	1.4891	0.42	. Q	.	.	.	.
23.16	1.4938	0.42	. Q	.	.	.	.
23.29	1.4984	0.41	. Q	.	.	.	.
23.42	1.5030	0.41	. Q	.	.	.	.
23.56	1.5075	0.41	. Q	.	.	.	.
23.70	1.5120	0.40	. Q	.	.	.	.
23.83	1.5165	0.40	. Q	.	.	.	.
23.97	1.5209	0.40	. Q	.	.	.	.
24.10	1.5253	0.39	. Q	.	.	.	.
24.23	1.5275	0.00	. Q	.	.	.	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:



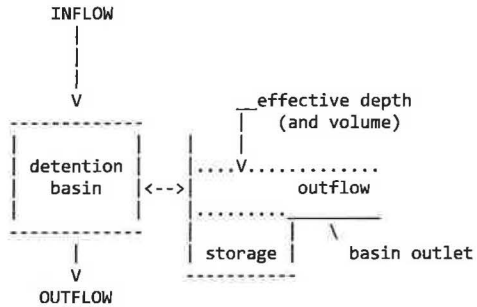
(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1441.8
10%	226.8
20%	24.3
30%	16.2
40%	8.1
50%	8.1
60%	8.1
70%	8.1
80%	8.1
90%	8.1

Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 7 TRUCK YARD (NODE 131)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.100  
 DEAD STORAGE(AF) = 0.00  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.00  
 ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:

TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 8

* (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	** (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)
* 0.000	0.000	0.000**	0.110	0.001	1.010*
* 0.310	0.010	1.100**	0.510	0.030	1.180*
* 0.710	0.080	1.260**	0.910	0.150	1.330*
* 1.110	0.240	1.400**	1.230	0.310	1.440*

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.11	-0.00463	0.00663
3	0.31	0.00386	0.01614
4	0.51	0.02342	0.03658
5	0.71	0.07297	0.08703
6	0.91	0.14258	0.15742
7	1.11	0.23219	0.24781
8	1.23	0.30197	0.31803

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	BLDG7.txt EFFECTIVE VOLUME(AF)
0.070	0.000	0.00	0.00	0.00	0.000
0.205	0.000	0.39	0.07	0.33	0.001
0.340	0.000	0.39	0.07	0.67	0.001
0.475	0.000	0.40	0.07	0.67	0.001
0.610	0.000	0.40	0.07	0.67	0.001
0.745	0.000	0.40	0.07	0.68	0.001
0.880	0.000	0.40	0.07	0.68	0.001
1.015	0.000	0.40	0.07	0.68	0.001
1.150	0.000	0.40	0.07	0.69	0.001
1.285	0.000	0.41	0.08	0.69	0.001
1.420	0.000	0.41	0.08	0.69	0.001
1.555	0.000	0.41	0.08	0.69	0.001
1.690	0.000	0.41	0.08	0.70	0.001
1.825	0.000	0.41	0.08	0.70	0.001
1.960	0.000	0.42	0.08	0.70	0.001
2.095	0.000	0.42	0.08	0.71	0.001
2.230	0.000	0.42	0.08	0.71	0.001
2.365	0.000	0.42	0.08	0.71	0.001
2.500	0.000	0.42	0.08	0.72	0.001
2.635	0.000	0.43	0.08	0.72	0.001
2.770	0.000	0.43	0.08	0.72	0.001
2.905	0.000	0.43	0.08	0.73	0.001
3.040	0.000	0.43	0.08	0.73	0.001
3.175	0.000	0.43	0.08	0.74	0.001
3.310	0.000	0.44	0.08	0.74	0.001
3.445	0.000	0.44	0.08	0.74	0.001
3.580	0.000	0.44	0.08	0.75	0.001
3.715	0.000	0.44	0.08	0.75	0.001
3.850	0.000	0.45	0.08	0.76	0.001
3.985	0.000	0.45	0.08	0.76	0.001
4.120	0.000	0.45	0.08	0.76	0.001
4.255	0.000	0.45	0.08	0.77	0.001
4.390	0.000	0.46	0.08	0.77	0.001
4.525	0.000	0.46	0.08	0.78	0.001
4.660	0.000	0.46	0.09	0.78	0.001
4.795	0.000	0.46	0.09	0.79	0.001
4.930	0.000	0.47	0.09	0.79	0.001
5.065	0.000	0.47	0.09	0.79	0.001
5.200	0.000	0.47	0.09	0.80	0.001
5.335	0.000	0.48	0.09	0.80	0.001
5.470	0.000	0.48	0.09	0.81	0.001
5.605	0.000	0.48	0.09	0.81	0.001
5.740	0.000	0.48	0.09	0.82	0.001
5.875	0.000	0.49	0.09	0.82	0.001
6.010	0.000	0.49	0.09	0.83	0.001
6.145	0.000	0.49	0.09	0.83	0.001
6.280	0.000	0.50	0.09	0.84	0.001
6.415	0.000	0.50	0.09	0.85	0.001
6.550	0.000	0.50	0.09	0.85	0.001
6.685	0.000	0.51	0.09	0.86	0.001
6.820	0.000	0.51	0.09	0.86	0.001
6.955	0.000	0.51	0.10	0.87	0.001
7.090	0.000	0.52	0.10	0.88	0.001
7.225	0.000	0.52	0.10	0.88	0.001
7.360	0.000	0.52	0.10	0.89	0.001
7.495	0.000	0.53	0.10	0.90	0.001
7.630	0.000	0.53	0.10	0.90	0.001
7.765	0.000	0.54	0.10	0.91	0.001
7.900	0.000	0.54	0.10	0.92	0.001
8.035	0.000	0.55	0.10	0.92	0.001
8.170	0.000	0.55	0.10	0.93	0.001
8.305	0.000	0.56	0.10	0.94	0.001
8.440	0.000	0.56	0.10	0.95	0.001
8.575	0.000	0.57	0.10	0.96	0.001
8.710	0.000	0.57	0.11	0.96	0.001
8.845	0.000	0.58	0.11	0.97	0.001
8.980	0.000	0.58	0.11	0.98	0.001
9.115	0.000	0.59	0.11	0.99	0.001
9.250	0.000	0.59	0.11	1.00	0.001
9.385	0.000	0.60	0.11	1.01	0.001
9.520	0.000	0.60	0.11	1.01	0.001
9.655	0.000	0.61	0.11	1.01	0.001
9.790	0.000	0.61	0.11	1.01	0.001
9.925	0.000	0.62	0.12	1.01	0.001

10.060	0.000	0.63	0.12	1.01	0.001
10.195	0.000	0.64	0.12	1.01	0.001
10.330	0.000	0.64	0.12	1.01	0.001
10.465	0.000	0.65	0.12	1.02	0.002
10.600	0.000	0.66	0.12	1.02	0.002
10.735	0.000	0.67	0.13	1.02	0.002
10.870	0.000	0.67	0.13	1.02	0.002
11.005	0.000	0.68	0.13	1.02	0.002
11.140	0.000	0.69	0.13	1.02	0.002
11.275	0.000	0.70	0.14	1.02	0.002
11.410	0.000	0.71	0.14	1.02	0.002
11.545	0.000	0.72	0.14	1.02	0.002
11.680	0.000	0.73	0.14	1.02	0.002
11.815	0.000	0.75	0.15	1.03	0.003
11.950	0.000	0.75	0.15	1.03	0.003
12.085	0.000	0.83	0.17	1.03	0.004
12.220	0.000	0.92	0.19	1.04	0.004
12.355	0.000	0.94	0.19	1.05	0.005
12.490	0.000	0.95	0.19	1.05	0.005
12.625	0.000	0.97	0.20	1.05	0.005
12.760	0.000	0.98	0.20	1.05	0.005
12.895	0.000	1.00	0.21	1.05	0.005
13.030	0.000	1.01	0.21	1.05	0.005
13.165	0.000	1.04	0.21	1.06	0.006
13.300	0.000	1.05	0.22	1.06	0.006
13.435	0.000	1.08	0.22	1.06	0.006
13.570	0.000	1.09	0.23	1.06	0.006
13.705	0.000	1.12	0.24	1.07	0.007
13.840	0.000	1.14	0.26	1.07	0.008
13.975	0.000	1.18	0.28	1.08	0.009
14.110	0.000	1.18	0.30	1.09	0.010
14.245	0.000	1.19	0.32	1.10	0.011
14.380	0.000	1.21	0.33	1.11	0.012
14.515	0.000	1.27	0.35	1.11	0.014
14.650	0.000	1.30	0.37	1.12	0.016
14.785	0.000	1.37	0.40	1.13	0.019
14.920	0.000	1.42	0.43	1.14	0.022
15.055	0.000	1.51	0.47	1.15	0.026
15.190	0.000	1.57	0.51	1.17	0.030
15.325	0.000	1.72	0.53	1.18	0.036
15.460	0.000	1.59	0.55	1.19	0.041
15.595	0.000	1.54	0.57	1.20	0.044
15.730	0.000	1.74	0.59	1.21	0.050
15.865	0.000	2.41	0.64	1.22	0.063
16.000	0.000	3.38	0.73	1.25	0.087
16.135	0.000	11.05	1.01	1.32	0.196
16.270	0.000	1.96	1.03	1.37	0.202
16.405	0.000	1.39	1.03	1.37	0.203
16.540	0.000	1.64	1.03	1.37	0.206
16.675	0.000	1.46	1.04	1.37	0.206
16.810	0.000	1.34	1.03	1.37	0.206
16.945	0.000	1.24	1.03	1.37	0.205
17.080	0.000	1.17	1.03	1.37	0.202
17.215	0.000	1.16	1.02	1.37	0.200
17.350	0.000	1.11	1.01	1.37	0.197
17.485	0.000	1.06	1.01	1.37	0.194
17.620	0.000	1.02	1.00	1.36	0.190
17.755	0.000	0.99	0.99	1.36	0.186
17.890	0.000	0.96	0.98	1.36	0.181
18.025	0.000	0.93	0.97	1.35	0.177
18.160	0.000	0.76	0.95	1.35	0.170
18.295	0.000	0.74	0.94	1.34	0.163
18.430	0.000	0.72	0.92	1.34	0.156
18.565	0.000	0.70	0.91	1.33	0.149
18.700	0.000	0.68	0.89	1.33	0.142
18.835	0.000	0.66	0.87	1.32	0.135
18.970	0.000	0.65	0.85	1.31	0.127
19.105	0.000	0.63	0.82	1.30	0.120
19.240	0.000	0.62	0.80	1.30	0.112
19.375	0.000	0.61	0.78	1.29	0.105
19.510	0.000	0.59	0.76	1.28	0.097
19.645	0.000	0.58	0.74	1.27	0.089
19.780	0.000	0.57	0.71	1.27	0.082
19.915	0.000	0.56	0.69	1.26	0.074
20.050	0.000	0.55	0.65	1.24	0.066
20.185	0.000	0.54	0.62	1.23	0.058
20.320	0.000	0.54	0.59	1.22	0.051

←  $Q_{100}(\text{DISCHARGE}) = 1.4 \text{ CFS}$   
 PONDING DEPTH = 1.04 FT  
 VOLUME STORED = 0.206 AC FT

BLDG7.txt

20.455	0.000	0.53	0.56	1.21	0.043
20.590	0.000	0.52	0.53	1.20	0.036
20.725	0.000	0.51	0.49	1.18	0.028
20.860	0.000	0.50	0.42	1.16	0.021
20.995	0.000	0.50	0.35	1.13	0.014
21.130	0.000	0.49	0.25	1.09	0.007
21.265	0.000	0.49	0.11	1.04	0.001
21.400	0.000	0.48	0.09	0.91	0.001
21.535	0.000	0.47	0.09	0.81	0.001
21.670	0.000	0.47	0.09	0.80	0.001
21.805	0.000	0.46	0.09	0.79	0.001
21.940	0.000	0.46	0.08	0.78	0.001
22.075	0.000	0.45	0.08	0.77	0.001
22.210	0.000	0.45	0.08	0.76	0.001
22.345	0.000	0.44	0.08	0.76	0.001
22.480	0.000	0.44	0.08	0.75	0.001
22.615	0.000	0.43	0.08	0.74	0.001
22.750	0.000	0.43	0.08	0.73	0.001
22.885	0.000	0.42	0.08	0.72	0.001
23.020	0.000	0.42	0.08	0.72	0.001
23.155	0.000	0.42	0.08	0.71	0.001
23.290	0.000	0.41	0.08	0.70	0.001
23.425	0.000	0.41	0.08	0.70	0.001
23.560	0.000	0.41	0.07	0.69	0.001
23.695	0.000	0.40	0.07	0.69	0.001
23.830	0.000	0.40	0.07	0.68	0.001
23.965	0.000	0.40	0.07	0.67	0.001
24.100	0.000	0.39	0.07	0.67	0.001
24.235	0.000	0.00	0.00	0.33	0.000
24.370	0.000	0.00	0.00	0.00	0.000

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Job #3654 Grove Business Center, Ontario  
 Volume in Building 8 Truck Yard, Node 112

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	$\Sigma$ Volume (c.f.)	$\Sigma$ Volume (ac-ft)	Q Discharge (cfs)
667.51	0.00	0	3	3	0.00	1.7
667.60	0.09	70	182	185	0.00	1.9
667.80	0.29	1750	852	1037	0.02	2.1
668.00	0.49	6770	1910	2947	0.07	2.2
668.20	0.69	12330	3007	5954	0.14	2.3
668.40	0.89	17740	2339	8294	0.19	2.4
668.52	1.01	21250				

\*\*\*\*\*  
 SMALL AREA UNIT HYDROGRAPH MODEL  
 \*\*\*\*\*

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Analysis prepared by:

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Problem Descriptions:

JOB #3654 SOUTH ONTARIO LOGISTIC CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 8 TRUCK YARD (NODE 112)

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RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90  
 TOTAL CATCHMENT AREA(ACRES) = 4.65  
 SOIL-LOSS RATE, Fm, (INCH/HR) = 0.042  
 LOW LOSS FRACTION = 0.079  
 TIME OF CONCENTRATION(MIN.) = 8.70  
 SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA  
 USER SPECIFIED RAINFALL VALUES ARE USED  
 RETURN FREQUENCY(YEARS) = 100  
 5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.37  
 30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.75  
 1-HOUR POINT RAINFALL VALUE(INCHES) = 1.00  
 3-HOUR POINT RAINFALL VALUE(INCHES) = 1.90  
 6-HOUR POINT RAINFALL VALUE(INCHES) = 2.90  
 24-HOUR POINT RAINFALL VALUE(INCHES) = 5.90

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TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 1.90  
 TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 0.39

\*\*\*\*\*

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	5.0	10.0	15.0	20.0
0.05	0.0000	0.00	Q	.	.	.	.
0.20	0.0029	0.49	Q	.	.	.	.
0.34	0.0088	0.49	Q	.	.	.	.
0.49	0.0146	0.49	Q	.	.	.	.
0.63	0.0205	0.49	Q	.	.	.	.
0.78	0.0265	0.50	Q	.	.	.	.
0.92	0.0324	0.50	Q	.	.	.	.
1.07	0.0384	0.50	.Q	.	.	.	.
1.21	0.0444	0.50	.Q	.	.	.	.
1.36	0.0504	0.51	.Q	.	.	.	.
1.50	0.0565	0.51	.Q	.	.	.	.
1.65	0.0626	0.51	.Q	.	.	.	.
1.79	0.0687	0.51	.Q	.	.	.	.
1.94	0.0749	0.52	.Q	.	.	.	.
2.08	0.0810	0.52	.Q	.	.	.	.
2.23	0.0873	0.52	.Q	.	.	.	.
2.37	0.0935	0.52	.Q	.	.	.	.
2.52	0.0998	0.53	.Q	.	.	.	.
2.66	0.1061	0.53	.Q	.	.	.	.
2.81	0.1124	0.53	.Q	.	.	.	.
2.95	0.1188	0.53	.Q	.	.	.	.
3.10	0.1252	0.54	.Q	.	.	.	.
3.24	0.1317	0.54	.Q	.	.	.	.
3.39	0.1382	0.54	.Q	.	.	.	.
3.53	0.1447	0.55	.Q	.	.	.	.
3.68	0.1512	0.55	.Q	.	.	.	.
3.82	0.1578	0.55	.Q	.	.	.	.
3.97	0.1645	0.56	.Q	.	.	.	.
4.11	0.1711	0.56	.Q	.	.	.	.

BLDG8.txt

4.26	0.1779	0.56	.Q	.	.	.	.
4.40	0.1846	0.56	.Q	.	.	.	.
4.55	0.1914	0.57	.Q	.	.	.	.
4.69	0.1982	0.57	.Q	.	.	.	.
4.84	0.2051	0.58	.Q	.	.	.	.
4.98	0.2120	0.58	.Q	.	.	.	.
5.12	0.2190	0.58	.Q	.	.	.	.
5.27	0.2260	0.59	.Q	.	.	.	.
5.42	0.2330	0.59	.Q	.	.	.	.
5.56	0.2401	0.59	.Q	.	.	.	.
5.71	0.2473	0.60	.Q	.	.	.	.
5.85	0.2545	0.60	.Q	.	.	.	.
6.00	0.2617	0.61	.Q	.	.	.	.
6.14	0.2690	0.61	.Q	.	.	.	.
6.29	0.2764	0.62	.Q	.	.	.	.
6.43	0.2838	0.62	.Q	.	.	.	.
6.57	0.2912	0.63	.Q	.	.	.	.
6.72	0.2988	0.63	.Q	.	.	.	.
6.87	0.3063	0.63	.Q	.	.	.	.
7.01	0.3140	0.64	.Q	.	.	.	.
7.16	0.3216	0.64	.Q	.	.	.	.
7.30	0.3294	0.65	.Q	.	.	.	.
7.45	0.3372	0.66	.Q	.	.	.	.
7.59	0.3451	0.66	.Q	.	.	.	.
7.74	0.3530	0.67	.Q	.	.	.	.
7.88	0.3610	0.67	.Q	.	.	.	.
8.02	0.3691	0.68	.Q	.	.	.	.
8.17	0.3772	0.68	.Q	.	.	.	.
8.32	0.3854	0.69	.Q	.	.	.	.
8.46	0.3937	0.69	.Q	.	.	.	.
8.60	0.4021	0.70	.Q	.	.	.	.
8.75	0.4106	0.71	.Q	.	.	.	.
8.90	0.4191	0.72	.Q	.	.	.	.
9.04	0.4277	0.72	.Q	.	.	.	.
9.19	0.4364	0.73	.Q	.	.	.	.
9.33	0.4452	0.74	.Q	.	.	.	.
9.48	0.4541	0.75	.Q	.	.	.	.
9.62	0.4631	0.75	.Q	.	.	.	.
9.77	0.4721	0.76	.Q	.	.	.	.
9.91	0.4813	0.77	.Q	.	.	.	.
10.05	0.4906	0.78	.Q	.	.	.	.
10.20	0.5000	0.79	.Q	.	.	.	.
10.35	0.5095	0.80	.Q	.	.	.	.
10.49	0.5191	0.81	.Q	.	.	.	.
10.64	0.5289	0.82	.Q	.	.	.	.
10.78	0.5387	0.83	.Q	.	.	.	.
10.93	0.5487	0.84	.Q	.	.	.	.
11.07	0.5589	0.85	.Q	.	.	.	.
11.22	0.5691	0.87	.Q	.	.	.	.
11.36	0.5796	0.87	.Q	.	.	.	.
11.51	0.5902	0.89	.Q	.	.	.	.
11.65	0.6009	0.90	.Q	.	.	.	.
11.80	0.6118	0.92	.Q	.	.	.	.
11.94	0.6229	0.93	.Q	.	.	.	.
12.09	0.6346	1.02	.Q	.	.	.	.
12.23	0.6476	1.15	.Q	.	.	.	.
12.38	0.6615	1.17	.Q	.	.	.	.
12.52	0.6756	1.18	.Q	.	.	.	.
12.66	0.6899	1.21	.Q	.	.	.	.
12.81	0.7044	1.22	.Q	.	.	.	.
12.95	0.7192	1.25	.Q	.	.	.	.
13.10	0.7343	1.26	.Q	.	.	.	.
13.24	0.7496	1.30	.Q	.	.	.	.
13.39	0.7653	1.31	.Q	.	.	.	.
13.53	0.7812	1.35	.Q	.	.	.	.
13.68	0.7976	1.37	.Q	.	.	.	.
13.82	0.8143	1.42	.Q	.	.	.	.
13.97	0.8314	1.44	.Q	.	.	.	.
14.12	0.8487	1.45	.Q	.	.	.	.
14.26	0.8662	1.46	.Q	.	.	.	.
14.40	0.8841	1.53	.Q	.	.	.	.
14.55	0.9027	1.57	.Q	.	.	.	.
14.70	0.9220	1.65	.Q	.	.	.	.
14.84	0.9421	1.70	.Q	.	.	.	.
14.98	0.9632	1.82	.Q	.	.	.	.
15.13	0.9854	1.89	.Q	.	.	.	.
15.27	1.0092	2.07	.Q	.	.	.	.

15.42	1.0346	2.19	. Q	.	.	.	.
15.57	1.0587	1.83	. Q	.	.	.	.
15.71	1.0820	2.06	. Q	.	.	.	.
15.85	1.1114	2.85	. Q	.	.	.	.
16.00	1.1525	4.00	. Q	.	.	.	.
16.15	1.2550	13.11	.	.	Q	.	.
16.29	1.3477	2.36	. Q	.	.	.	.
16.43	1.3721	1.73	. Q	.	.	.	.
16.58	1.3943	1.97	. Q	.	.	.	.
16.73	1.4166	1.76	. Q	.	.	.	.
16.87	1.4368	1.61	. Q	.	.	.	.
17.02	1.4554	1.49	. Q	.	.	.	.
17.16	1.4731	1.47	. Q	.	.	.	.
17.31	1.4903	1.39	. Q	.	.	.	.
17.45	1.5066	1.33	. Q	.	.	.	.
17.59	1.5223	1.28	. Q	.	.	.	.
17.74	1.5373	1.23	. Q	.	.	.	.
17.89	1.5519	1.19	. Q	.	.	.	.
18.03	1.5660	1.16	. Q	.	.	.	.
18.17	1.5785	0.94	.Q	.	.	.	.
18.32	1.5896	0.91	.Q	.	.	.	.
18.47	1.6004	0.88	.Q	.	.	.	.
18.61	1.6108	0.86	.Q	.	.	.	.
18.76	1.6210	0.83	.Q	.	.	.	.
18.90	1.6308	0.81	.Q	.	.	.	.
19.05	1.6405	0.79	.Q	.	.	.	.
19.19	1.6499	0.77	.Q	.	.	.	.
19.33	1.6590	0.76	.Q	.	.	.	.
19.48	1.6680	0.74	.Q	.	.	.	.
19.62	1.6768	0.73	.Q	.	.	.	.
19.77	1.6854	0.71	.Q	.	.	.	.
19.92	1.6939	0.70	.Q	.	.	.	.
20.06	1.7022	0.69	.Q	.	.	.	.
20.20	1.7103	0.67	.Q	.	.	.	.
20.35	1.7183	0.66	.Q	.	.	.	.
20.49	1.7262	0.65	.Q	.	.	.	.
20.64	1.7339	0.64	.Q	.	.	.	.
20.78	1.7416	0.63	.Q	.	.	.	.
20.93	1.7491	0.62	.Q	.	.	.	.
21.08	1.7565	0.61	.Q	.	.	.	.
21.22	1.7638	0.60	.Q	.	.	.	.
21.36	1.7710	0.60	.Q	.	.	.	.
21.51	1.7781	0.59	.Q	.	.	.	.
21.66	1.7851	0.58	.Q	.	.	.	.
21.80	1.7920	0.57	.Q	.	.	.	.
21.94	1.7988	0.57	.Q	.	.	.	.
22.09	1.8056	0.56	.Q	.	.	.	.
22.23	1.8123	0.55	.Q	.	.	.	.
22.38	1.8189	0.55	.Q	.	.	.	.
22.52	1.8254	0.54	.Q	.	.	.	.
22.67	1.8318	0.54	.Q	.	.	.	.
22.82	1.8382	0.53	.Q	.	.	.	.
22.96	1.8445	0.52	.Q	.	.	.	.
23.11	1.8508	0.52	.Q	.	.	.	.
23.25	1.8569	0.51	.Q	.	.	.	.
23.39	1.8631	0.51	.Q	.	.	.	.
23.54	1.8691	0.50	.Q	.	.	.	.
23.68	1.8751	0.50	Q	.	.	.	.
23.83	1.8811	0.49	Q	.	.	.	.
23.98	1.8870	0.49	Q	.	.	.	.
24.12	1.8928	0.49	Q	.	.	.	.
24.26	1.8957	0.00	Q	.	.	.	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
-----	-----
0%	1444.2
10%	252.3
20%	26.1
30%	17.4
40%	8.7
50%	8.7



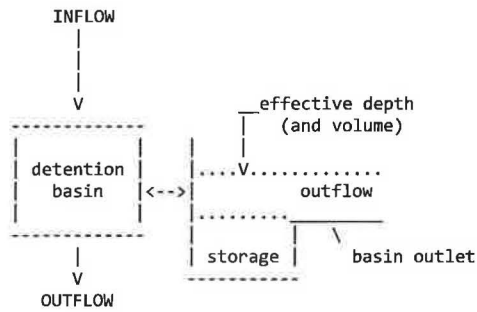
60% 8.7  
 70% 8.7  
 80% 8.7  
 90% 8.7

Problem Descriptions:  
 JOB #3654 SOUTH ONTARIO LOGISTIC CENTER, ONTARIO  
 100-YEAR DETENTION  
 BUILDING 8 TRUCK YARD (NODE 112)

=====

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:  
 CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.700  
 DEAD STORAGE(AF) = 0.00  
 SPECIFIED DEAD STORAGE(AF) FILLED = 0.00  
 ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:

TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

* (FEET)	* (ACRE-FEET)	OUTFLOW (CFS)	** (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)
0.000	0.000	0.000**	0.090	0.001	1.700*
0.290	0.004	1.900**	0.490	0.020	2.100*
0.690	0.070	2.200**	0.890	0.140	2.300*
1.010	0.190	2.400**			

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.09	-0.00919	0.01119
3	0.29	-0.00738	0.01538
4	0.49	0.00742	0.03258
5	0.69	0.05682	0.08318
6	0.89	0.12622	0.15378
7	1.01	0.17562	0.20438

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:

NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.050	0.000	0.00	0.00	0.00	0.000
0.195	0.000	0.49	0.05	0.44	0.001
0.340	0.000	0.49	0.05	0.89	0.001
0.485	0.000	0.49	0.05	0.89	0.001
0.630	0.000	0.49	0.05	0.90	0.001
0.775	0.000	0.50	0.05	0.90	0.001
0.920	0.000	0.50	0.05	0.90	0.001
1.065	0.000	0.50	0.05	0.91	0.001
1.210	0.000	0.50	0.05	0.91	0.001
1.355	0.000	0.51	0.05	0.92	0.001

## BLDG8.txt

1.500	0.000	0.51	0.05	0.92	0.001
1.645	0.000	0.51	0.05	0.93	0.001
1.790	0.000	0.51	0.05	0.93	0.001
1.935	0.000	0.52	0.05	0.94	0.001
2.080	0.000	0.52	0.05	0.94	0.001
2.225	0.000	0.52	0.05	0.94	0.001
2.370	0.000	0.52	0.05	0.95	0.001
2.515	0.000	0.53	0.05	0.95	0.001
2.660	0.000	0.53	0.05	0.96	0.001
2.805	0.000	0.53	0.05	0.96	0.001
2.950	0.000	0.53	0.05	0.97	0.001
3.095	0.000	0.54	0.05	0.97	0.001
3.240	0.000	0.54	0.05	0.98	0.001
3.385	0.000	0.54	0.05	0.99	0.001
3.530	0.000	0.55	0.05	0.99	0.001
3.675	0.000	0.55	0.05	1.00	0.001
3.820	0.000	0.55	0.05	1.00	0.001
3.965	0.000	0.56	0.05	1.01	0.001
4.110	0.000	0.56	0.05	1.01	0.001
4.255	0.000	0.56	0.05	1.02	0.001
4.400	0.000	0.56	0.05	1.03	0.001
4.545	0.000	0.57	0.05	1.03	0.001
4.690	0.000	0.57	0.06	1.04	0.001
4.835	0.000	0.58	0.06	1.04	0.001
4.980	0.000	0.58	0.06	1.05	0.001
5.125	0.000	0.58	0.06	1.06	0.001
5.270	0.000	0.59	0.06	1.06	0.001
5.415	0.000	0.59	0.06	1.07	0.001
5.560	0.000	0.59	0.06	1.08	0.001
5.705	0.000	0.60	0.06	1.09	0.001
5.850	0.000	0.60	0.06	1.09	0.001
5.995	0.000	0.61	0.06	1.10	0.001
6.140	0.000	0.61	0.06	1.11	0.001
6.285	0.000	0.62	0.06	1.12	0.001
6.430	0.000	0.62	0.06	1.12	0.001
6.575	0.000	0.63	0.06	1.13	0.001
6.720	0.000	0.63	0.06	1.14	0.001
6.865	0.000	0.63	0.06	1.15	0.001
7.010	0.000	0.64	0.06	1.16	0.001
7.155	0.000	0.64	0.06	1.17	0.001
7.300	0.000	0.65	0.06	1.18	0.001
7.445	0.000	0.66	0.06	1.19	0.001
7.590	0.000	0.66	0.06	1.20	0.001
7.735	0.000	0.67	0.06	1.21	0.001
7.880	0.000	0.67	0.06	1.22	0.001
8.025	0.000	0.68	0.07	1.23	0.001
8.170	0.000	0.68	0.07	1.24	0.001
8.315	0.000	0.69	0.07	1.25	0.001
8.460	0.000	0.69	0.07	1.26	0.001
8.605	0.000	0.70	0.07	1.27	0.001
8.750	0.000	0.71	0.07	1.28	0.001
8.895	0.000	0.72	0.07	1.30	0.001
9.040	0.000	0.72	0.07	1.31	0.001
9.185	0.000	0.73	0.07	1.32	0.001
9.330	0.000	0.74	0.07	1.34	0.001
9.475	0.000	0.75	0.07	1.35	0.001
9.620	0.000	0.75	0.07	1.36	0.001
9.765	0.000	0.76	0.07	1.38	0.001
9.910	0.000	0.77	0.07	1.39	0.001
10.055	0.000	0.78	0.08	1.41	0.001
10.200	0.000	0.79	0.08	1.43	0.001
10.345	0.000	0.80	0.08	1.44	0.001
10.490	0.000	0.81	0.08	1.46	0.001
10.635	0.000	0.82	0.08	1.48	0.001
10.780	0.000	0.83	0.08	1.50	0.001
10.925	0.000	0.84	0.08	1.52	0.001
11.070	0.000	0.85	0.08	1.54	0.001
11.215	0.000	0.87	0.08	1.56	0.001
11.360	0.000	0.87	0.08	1.59	0.001
11.505	0.000	0.89	0.09	1.61	0.001
11.650	0.000	0.90	0.09	1.63	0.001
11.795	0.000	0.92	0.09	1.66	0.001
11.940	0.000	0.93	0.09	1.69	0.001
12.085	0.000	1.02	0.14	1.72	0.002
12.230	0.000	1.15	0.21	1.79	0.003
12.375	0.000	1.17	0.22	1.83	0.003
12.520	0.000	1.18	0.23	1.84	0.003

BLDG8.txt

12.665	0.000	1.21	0.25	1.85	0.003
12.810	0.000	1.22	0.25	1.86	0.003
12.955	0.000	1.25	0.27	1.87	0.004
13.100	0.000	1.26	0.28	1.88	0.004
13.245	0.000	1.30	0.29	1.90	0.004
13.390	0.000	1.31	0.29	1.90	0.004
13.535	0.000	1.35	0.30	1.91	0.005
13.680	0.000	1.37	0.30	1.91	0.005
13.825	0.000	1.42	0.31	1.92	0.005
13.970	0.000	1.44	0.31	1.92	0.006
14.115	0.000	1.45	0.31	1.92	0.006
14.260	0.000	1.46	0.31	1.92	0.006
14.405	0.000	1.53	0.32	1.93	0.007
14.550	0.000	1.57	0.33	1.94	0.007
14.695	0.000	1.65	0.34	1.95	0.008
14.840	0.000	1.70	0.35	1.96	0.009
14.985	0.000	1.82	0.36	1.97	0.010
15.130	0.000	1.89	0.37	1.98	0.011
15.275	0.000	2.07	0.40	2.00	0.013
15.420	0.000	2.19	0.42	2.02	0.015
15.565	0.000	1.83	0.40	2.02	0.012
15.710	0.000	2.06	0.40	2.01	0.013
15.855	0.000	2.85	0.50	2.06	0.023
16.000	0.000	4.00	0.59	2.13	0.045
16.145	0.000	13.11	0.97	2.26	0.175
16.290	0.000	2.36	0.97	2.37	0.175
16.435	0.000	1.73	0.96	2.36	0.167
16.580	0.000	1.97	0.94	2.35	0.163
16.725	0.000	1.76	0.93	2.34	0.156
16.870	0.000	1.61	0.91	2.32	0.147
17.015	0.000	1.49	0.88	2.31	0.137
17.160	0.000	1.47	0.85	2.29	0.128
17.305	0.000	1.39	0.82	2.27	0.117
17.450	0.000	1.33	0.79	2.26	0.106
17.595	0.000	1.28	0.76	2.24	0.094
17.740	0.000	1.23	0.73	2.23	0.082
17.885	0.000	1.19	0.69	2.21	0.070
18.030	0.000	1.16	0.64	2.19	0.058
18.175	0.000	0.94	0.58	2.16	0.043
18.320	0.000	0.91	0.52	2.13	0.029
18.465	0.000	0.88	0.42	2.07	0.014
18.610	0.000	0.86	0.16	1.90	0.002
18.755	0.000	0.83	0.08	1.64	0.001
18.900	0.000	0.81	0.08	1.50	0.001
19.045	0.000	0.79	0.08	1.46	0.001
19.190	0.000	0.77	0.07	1.43	0.001
19.335	0.000	0.76	0.07	1.39	0.001
19.480	0.000	0.74	0.07	1.36	0.001
19.625	0.000	0.73	0.07	1.34	0.001
19.770	0.000	0.71	0.07	1.31	0.001
19.915	0.000	0.70	0.07	1.28	0.001
20.060	0.000	0.69	0.07	1.26	0.001
20.205	0.000	0.67	0.06	1.24	0.001
20.350	0.000	0.66	0.06	1.22	0.001
20.495	0.000	0.65	0.06	1.20	0.001
20.640	0.000	0.64	0.06	1.18	0.001
20.785	0.000	0.63	0.06	1.16	0.001
20.930	0.000	0.62	0.06	1.14	0.001
21.075	0.000	0.61	0.06	1.12	0.001
21.220	0.000	0.60	0.06	1.11	0.001
21.365	0.000	0.60	0.06	1.09	0.001
21.510	0.000	0.59	0.06	1.08	0.001
21.655	0.000	0.58	0.06	1.07	0.001
21.800	0.000	0.57	0.06	1.05	0.001
21.945	0.000	0.57	0.05	1.04	0.001
22.090	0.000	0.56	0.05	1.03	0.001
22.235	0.000	0.55	0.05	1.01	0.001
22.380	0.000	0.55	0.05	1.00	0.001
22.525	0.000	0.54	0.05	0.99	0.001
22.670	0.000	0.54	0.05	0.98	0.001
22.815	0.000	0.53	0.05	0.97	0.001
22.960	0.000	0.52	0.05	0.96	0.001
23.105	0.000	0.52	0.05	0.95	0.001
23.250	0.000	0.51	0.05	0.94	0.001
23.395	0.000	0.51	0.05	0.93	0.001
23.540	0.000	0.50	0.05	0.92	0.001
23.685	0.000	0.50	0.05	0.91	0.001

←  $Q_{100}(\text{DISCHARGE}) = 2.4 \text{ CFS}$   
 PONDING DEPTH = 0.97 FT  
 VOLUME STORED = 0.175 AC-FT

					BLDG8.txt
23.830	0.000	0.49	0.05	0.90	0.001
23.975	0.000	0.49	0.05	0.90	0.001
24.120	0.000	0.49	0.05	0.89	0.001
24.265	0.000	0.00	0.00	0.44	0.000
24.410	0.000	0.00	0.00	0.00	0.000

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# **APPENDIX D**

## **HYDROLOGY MAP**

**APPENDIX G2**  
**PRELIMINARY WATER QUALITY MANAGEMENT PLAN**



**Thienes Engineering, Inc.**  
CIVIL ENGINEERING • LAND SURVEYING

**PRELIMINARY  
WATER QUALITY MANAGEMENT PLAN  
(WQMP)**

FOR:

**SOUTH ONTARIO LOGISTICS CENTER  
NEC MERRILL AVE. AND BON VIEW AVE.  
ONTARIO, CALIFORNIA**

APNS: 1054-081-03 // 1054-091-01, -02 // 1054-071-01, -02 // 1054-101-01, -02 // 1054-241-01,  
-02 // 1054-231-01, -02 // 1054-311-01, -02 // 1054-321-01, -02

**ONTARIO LAND DEVELOPMENT FILE NO. XXXXX**

PREPARED FOR:

**REAL ESTATE DEVELOPMENT ASSOCIATES  
4450 MACARTHUR BOULEVARD, SUITE 100  
NEWPORT BEACH, CA 92660  
PHONE: (949) 216-7300  
CONTACT: JASON KROTTS**

DECEMBER 14, 2020

JOB NO. 3654

PREPARED BY:

**THIENES ENGINEERING  
14349 FIRESTONE BLVD.  
LA MIRADA, CALIFORNIA 90638  
PHONE: (714) 521-4811  
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**PRELIMINARY  
WATER QUALITY MANAGEMENT PLAN  
(WQMP)**

**FOR**

**“SOUTH ONTARIO LOGISTICS CENTER”**



PREPARED BY LUIS PRADO  
UNDER THE SUPERVISION OF:

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REINHARD STENZEL  
R.C.E. 56155  
EXP. 12/31/2022

12/14/20

DATE





## Preliminary Water Quality Management Plan (PWQMP)

For compliance with Santa Ana Regional Water Quality Control Board

Order Number R8-2010-0036 (NPDES Permit No. CAS618036)

**for**

**Project Name:** South Ontario Logistics Center

**Ontario Project #:** XXXXX

**Project Description:** Light Industrial

**Applicant Name:** Real Estate Development Associates

**Applicant Address:** 4450 MacArthur Boulevard, Suite 100  
Newport Beach, CA 92660

**Project Address:** NEC of Merrill Avenue and Bon View Avenue

**Size of Development:** 130.35 acres

**1<sup>st</sup> Submittal Date: 12/14/2020**

# Preliminary Water Quality Management Plan (PWQMP)

## 1. Introduction

The Preliminary Water Quality Management Plan (PWQMP) is a planning tool to improve integration of required water quality elements, stormwater management, water conservation, rainwater harvesting and re-use, and flood management in land use planning and the City's development process. The Preliminary WQMP will assist project applicants and planners in properly designing and laying out project sites so that water quality may be incorporated in the most effective manner and at the lowest cost for the developer.

The San Bernardino County Municipal Separate Storm Sewer System Permit (MS4 Permit) requires project-specific Water Quality Management plans (WQMP) to be prepared for all priority new development and significant redevelopment projects listed in Section 2 of this document. The MS4 Permit stipulates that the City of Ontario require priority project applicants to submit a Preliminary project-specific WQMP, as early as possible, during the environmental review or planning phase of a development project and that the Preliminary WQMP be approved prior to the issuance of land use entitlement.

## 2. Priority Projects (requiring a Preliminary WQMP)

Land Use entitlement shall not be issued for any of the listed projects, below, until a Preliminary WQMP has been approved by the City's Engineering Department. For construction projects not going through entitlement, a Preliminary and Final project-specific WQMP shall be approved, prior to the issuance of construction permits:

Check the appropriate project category below, for this project:

<b>Check below</b>	<b>Project Categories</b>
	1. All significant re-development projects. Significant re-development is defined as the addition or replacement of 5,000 or more square feet of impervious surface on an already developed site subject to discretionary approval of the Permittee. Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of the facility, or emergency redevelopment activity required to protect public health and safety. Where redevelopment results in an increase of less than fifty percent of the impervious surfaces of a previously existing developed site, and the existing development was not subject to WQMP requirements, the numeric sizing criteria discussed below applies only to the addition or replacement, and not to the entire developed site. Where redevelopment results in an increase of fifty percent or more of the impervious surfaces of a previously existing developed site, the numeric sizing criteria applies to the entire development (new and existing).

**Check  
below**

**Project Categories**

<b>X</b>	2. New development projects that create 10,000 square feet or more of impervious surface (collectively over the entire project site) including commercial, industrial, residential housing subdivisions (i.e., detached single family home subdivisions, multi-family attached subdivisions or townhomes, condominiums, apartments, etc.), mixed-use, and public projects. This category includes development projects on public and private land, which fall under the planning and building authority of the permitting agency.
	3. Automotive repair shops (with SIC codes 5013, 5014, 5541, 7532- 7534, 7536-7539).
	4. Restaurants and Food Service Establishments where the land area of development is 5,000 square feet or more.
	5. Developments of 2,500 square feet of impervious surface or more adjacent to (within 200 feet) or discharging directly into environmentally sensitive areas (ESA's) such as areas designated in the Ocean Plan as areas of special biological significance or waterbodies listed on the CWA Section 303(d) list of impaired waters.
	6. Parking lots of 5,000 square feet or more exposed to storm water. Parking lot is defined as land area or facility for the temporary storage of motor vehicles.
	7. Retail Gasoline Outlets (RGOs) that are either 5,000 sq ft or more, or have a projected average daily traffic of 100 or more vehicles per day.
	8. *This project is not covered under any of the categories listed above.

\* If the development is not covered under any of the project categories listed in Section 2, the project is not required to design and install Site Design/LID BMPs or Treatment Control BMPs to treat the design storm event (Design Capture Volume) described in Section 4.

### **3. Preliminary WQMP Objectives**

Through a combination of Site Design/LID BMPs (where feasible), Source Control, and/or Treatment Control BMPs, project-specific WQMPs shall address all identified pollutants and hydrologic conditions of concern from new development and significant re-development projects for the categories of projects (priority projects) listed in Section 2. Under each type of BMP, listed below, please indicate which BMPs are planned to be implemented and included in the Final WQMP for the project:

#### **A. Site Design/LID (Low Impact Design) for Reducing Stormwater Runoff:**

The MS4 Permit requires each priority development project to infiltrate, harvest and use, evapotranspire, or bio-treat the runoff from a 2-yr, 24-hour storm event (Design Capture Volume). If site conditions do not permit infiltration, harvest and use, evapotranspiration, and/or bio-treatment of the entire Design Capture Volume, at the project site, Site Design/LID techniques are required to be implemented to the Maximum Extent Practicable, at the project site, and the remainder of the DCV shall be infiltrated, harvested, bio-treated or treated by alternative measures.

Project applicants shall submit a Preliminary WQMP that documents the LID/Site Design BMPs, proposed for the project. Please indicate, in the table below, which Site Design/LID BMPs will be utilized on this project to accomplish this requirement:

Site Design/LID Practice	Planned	Not Planned
Provide at least the minimum effective area required for LID BMPs, to comply with the WQMP (see Table 3-1 below).		X <sup>1</sup>
Grade parking lot areas/drive aisles/roof drains to sheet flow runoff into landscaped swales, via curb cuts or zero-face curbs or otherwise disconnect direct drainage from MS4.		X <sup>1</sup>
Design landscaped areas as swales and grade to accept runoff from building roofs, parking lots and project roadways.		X <sup>1</sup>
Install surface retention basins or infiltration trenches to receive impervious area runoff.		X <sup>2</sup>
Install pervious pavement in parking stalls, alleys, driveways, gutters, walkways, trails or patios.		X <sup>2</sup>
Install underground stormwater retention chambers where downstream landscaped areas are limited.		X <sup>2</sup>
Install approved Stormwater Drywells in detention areas.		X <sup>2</sup>
Construct streets, sidewalks, and parking lot stalls to the minimum widths necessary.	X	
Install on-site Biotreatment basins/trenches with underdrains, where soil type is poorly draining.	X	
Install "Engineered Soil" to increase uptake/soil storage capacity and/or evapotranspiration.		X <sup>2</sup>
Install Rainwater Harvesting/Use Equipment.		X <sup>3</sup>
Utilize approved off-site retention/infiltration, biotreatment or proprietary treatment, where it is infeasible to install, on-site.		X <sup>2</sup>

<sup>1</sup> Project capable of treating the full DCV onsite and not required to demonstrate this site design.

<sup>2</sup> The site will be captured and treated by the proposed Contech underground CMP systems (CMP) and Maxwell Drywells.

<sup>3</sup> Concept not utilized because the impervious area is much greater than landscape.

Table 3-1 Minimum Effective Area<sup>1</sup> Required for LID BMPs (surface + subsurface facilities) for Project WQMP to Demonstrate Infeasibility<sup>2</sup> (% of site)

Project Type	New Development	Re-Development
SF/MF Residential < 7 du/ac	10%	5%
SF/MF Residential < 7 - 18 du/ac	7%	3.5%
SF/MF Residential > 18 du/ac	5%	2.5%
Mixed Use, Commercial/Industrial w/FAR < 1.0	10%	5%
Mixed Use, Commercial/Industrial w/FAR 1.0-2.0	7%	3.5%
Mixed Use, Commercial/Industrial w/FAR > 2.0	5%	2.5%
Podium (parking under > 75% of project)	3%	1.5%
Zoning allowing development to property lines	2%	1%
Transit Oriented Development <sup>3</sup>	5%	2.5%
Parking	5%	2.5%

<sup>1</sup> “Effective area” is defined as land area which 1) is suitable for a retention/infiltration BMP (based on infeasibility criteria) and 2) is located down-gradient from building roof or paved areas, so that it may receive gravity flow runoff.

<sup>2</sup> Criteria only required if the project WQMP seeks to demonstrate that the full DCV cannot be feasibly managed on-site.

<sup>3</sup> Transit oriented development is defined as a project with development center within one half mile of a mass transit center.

Key: du/ac = dwelling units/acre, FAR = Floor Area Ratio = ratio of gross floor area of building to gross lot area, MF = Multi Family, SF = Single Family

**B. Source Control BMPs** – The following BMPs are designed to control stormwater pollutants and runoff water at the location where it is generated. Please indicate which of the listed BMPs are planned to be implemented for the project:

Source Control BMPs	Planned	Not Planned
Minimize non-stormwater site runoff through efficient irrigation system design and controllers.	X	
Minimize trash and debris in storm runoff through a regular parking lot, storage yard and roadway sweeping program.	X	
Provide proper covers/roofs and secondary containment for outside material storage & work areas.		X <sup>1</sup>
Provide solid roofs over all trash enclosures.	X	
Site Owner(s)/Property Manager/HOA or POA will be familiar with the project WQMP and stormwater BMPs.	X	
Owner or HOA or POA to provide Education/Training of site occupants and employees on stormwater BMPs.	X	
Install stormwater placards/stenciled messages with a “No Dumping” message on all on-site/off-site storm drain inlets.	X	
Provide contained equipment/vehicle wash rack areas that discharge to sanitary sewer.		X <sup>2</sup>

<sup>1</sup> Not applicable. No outside material storage or work areas. Secondary containment not needed.

<sup>2</sup> Not applicable, no vehicle wash areas.

**C. Treatment Control BMPs** – The following BMPs are designed to control stormwater pollutants where it is not feasible to install on-site Site Design/LID BMPs, with the requisite capacity to treat the Design Capture Volume for identified Pollutants of Concern or where pretreatment of stormwater runoff is required, ahead of infiltration BMPs. Please indicate which of the listed BMPs are planned to be implemented for the project:

Treatment Control BMP	Planned	Not Planned
Gravity Separator devices for pretreatment of sediment, trash/litter or Oil & Grease	X <sup>1</sup>	
Proprietary Biofiltration vaults/devices		X
Media Cartridge Filtration Vaults		X
Proprietary Filter Inserts for on-site storm drain inlets or retention basin/trench overflow drains		X
Regional Treatment facilities are installed or are planned for installation, off-site, and provide a superior level of treatment or clear advantage to on-site treatment BMPs		X

<sup>1</sup>The site will be pre-treated by the proposed Bio Clean Hydrodynamic Separators (DSBB).

<sup>2</sup>The site will be captured and treated by the proposed Contech underground CMP systems (CMP) and Maxwell Drywells.

**4. Volume-based calculation (approximate) for sizing on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities**

- 1) Calculate the “Watershed Imperviousness Ratio”, *i*, which is equal to the percent of impervious area in the BMP Drainage Area (DA) divided by 100.
- 2) Calculate the composite runoff coefficient *C<sub>BMP</sub>* for the Drainage Area (DA) above using the following equation:

$$C_{BMP} = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$$

where: *C<sub>BMP</sub>* = composite runoff coefficient; and,  
*i* = watershed imperviousness ratio.

- 3) Determine the area-averaged “6-hour Mean Storm Rainfall”, *P<sub>6</sub>*, for the Drainage Area (DA). This is calculated by multiplying the area averaged 2-year 1-hour value (0.55”-0.6”) by the appropriate regression coefficient from Table 1 (1.4807). The 2-yr, 1-hr value for southern Ontario is approximately to 0.5” (*P<sub>6</sub>* = 0.5\*1.4807 = 0.74 and northern Ontario is approximately 0.6” in/hr (*P<sub>6</sub>* = 0.6\*1.4807 = 0.89).
- 4) Determine the appropriate drawdown time. Use the regression constant *a* = 1.582 for 24 hours and *a* = 1.963 for 48 hours. *Note: Regression constants are provided for both 24 hour and 48 hour drawdown times; however, 48 hour drawdown times should be used in most areas of California. Drawdown times in excess of 48 hours should be used with caution as vector breeding can be a problem after water has stood in excess of 72 hours. (Use of the 24 hour drawdown time should be limited to drainage areas with coarse soils (Class ‘A’ soils, that readily drain.)*

5) Calculate the “Maximized Detention Volume”,  $P_0$ , using the following equation:

$$P_0 = a \cdot C_{BMP} \cdot P_6$$

where:  $P_0$  = Maximized Detention Volume, in inches  
 $a$  = 1.582 for 24 hour and  $a$  = 1.963 for 48 hour drawdown,  
 $C_{BMP}$  = composite runoff coefficient; and,  
 $P_6$  = 6-hour Mean Storm Rainfall, in inches

6) Calculate the “Target Capture Volume”,  $V_0$ , using the following equation:

$$V_0 = (P_0 \cdot A) / 12$$

where:  $V_0$  = Target Capture Volume, in acre-feet  
 $P_0$  = Maximized Detention Volume, in inches; and,  
 $A$  = BMP Drainage Area (DA), in acres

**Project Volume-based calculation (approximate) for planned on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities:**

Variable	Factor/Formula	DA 1 DMA A CMP & DRY WELL #1	DA 1 DMA B CMP & DRY WELL #2	DA 1 DMA C CMP & DRY WELL #3	DA 1 DMA D CMP & DRY WELL #4
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95	0.95
$C_{BMP}$ = runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04 =$	0.807	0.807	0.807	0.807
$P_6$ (inches)	** $P_6$ = 2-yr, 1- hr depth*1.4807 =	0.845	0.845	0.845	0.845
Detention Volume-inches	$P_0 = a \cdot C_{BMP} \cdot P_6 =$	1.3393	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.35	4.10	4.00	3.75
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 \cdot A)/12]*43560 =$	21,149	19,933	19,447	18,232
Water Volume infiltrated in first 3 hrs of storm	$Vol = in/hr/12 \times ft^2$ of infiltration area x 3 hrs	N/A	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or	23,781	22,558	22,150	20,927

	biotreatment proposed				
Variable	Factor/Formula	<b>DA 1 DMA E CMP &amp; DRY WELL #5</b>	<b>DA 2 DMA A CMP &amp; DRY WELL #6</b>	<b>DA 2 DMA B CMP &amp; DRY WELL #7</b>	<b>DA 2 DMA C CMP &amp; DRY WELL #8</b>
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95	0.95
CBMP= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04 =$	0.807	0.807	0.807	0.807
P <sub>6</sub> (inches)	**P <sub>6</sub> = 2-yr, 1- hr depth*1.4807 =	0.845	0.845	0.845	0.845
Detention Volume- inches	P <sub>0</sub> = a * CBMP * P <sub>6</sub> =	1.3393	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.65	23.35	23.40	15.00
Design Capture Volume, cu. ft. (DCV)	V <sub>0</sub> = [(P <sub>0</sub> * A)/12]*43560 =	22,607	113,522	113,765	72,926
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft <sup>2</sup> of infiltration area x 3 hrs	N/A	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or biotreatment proposed	25,276	123,862	124,207	80,711



Variable	Factor/Formula	DA 2 DMA D CMP & DRY WELL #9	DA 2 DMA E CMP & DRY WELL #10	DA 2 DMA F CMP & DRY WELL #11
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95
CBMP= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04 =$	0.807	0.807	0.807
P <sub>6</sub> (inches)	**P <sub>6</sub> = 2-yr, 1- hr depth*1.4807 =	0.845	0.845	0.845
Detention Volume- inches	P <sub>0</sub> = a * CBMP * P <sub>6</sub> =	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963
Project Total Area (ac)	(A)	15.55	21.45	8.35
Design Capture Volume, cu. ft. (DCV)	V <sub>0</sub> = [(P <sub>0</sub> * A)/12]*43560 =	75,600	104,284	40,596
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft <sup>2</sup> of infiltration area x 3 hrs	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or biotreatment proposed	83,466	114,583	45,689

\*Volume treated utilizing the Contech underground CMP systems (CMP) and Maxwell Drywells. Refer to the DCV Calculations section for calculations.

\*\*For P<sub>6</sub> value, use site coordinates and NOAA website to determine project's average 2-yr, 1-hr rainfall depth, at: [http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca\\_pfds.html](http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html).

Refer to the DCV Calculations section for onsite flow-based calculations.

**5. Hydrologic Conditions of Concern (HCOC) and use of the on-line San Bernardino County HCOC Map for determining necessary mitigation steps necessary if there are HCOCs downstream of a project:**

Project applicants may access the on-line HCOC Map at: <http://sbcounty.permitrack.com/WAP/>. The map will indicate any hydrology concerns with downstream waterways that are hydraulically connected to the project and will indicate if there are any approved regional projects downstream that could be utilized for off-site mitigation of HCOCs. Please indicate here if the project will or will not be able to retain/infiltrate, harvest and use or biotreat and detain the DCV, on-site, as calculated in Section 4 and if there are HCOCs identified downstream of the project:

Retain or Harvest/Use the DCV on site?	Yes	<b>X</b>	No	
Biotreat the DCV but not infiltrate the runoff?	Yes		No	<b>X</b>
HCOCs identified downstream of site?	Yes	<b>X</b>	No	

If the entire DCV will not be retained on site, the DCV is biotreated but not infiltrated or additional detention capacity is needed to address identified HCOCs, downstream of the site, please list here, what additional mitigation measures will be utilized (on-site or off-site) to address HCOCs (see Section 4.2.1-4.2.3 of the SB County WQMP Technical Guidance):

Additional retention capacity is not required for HCOCs. Refer to HCOC Calculations.

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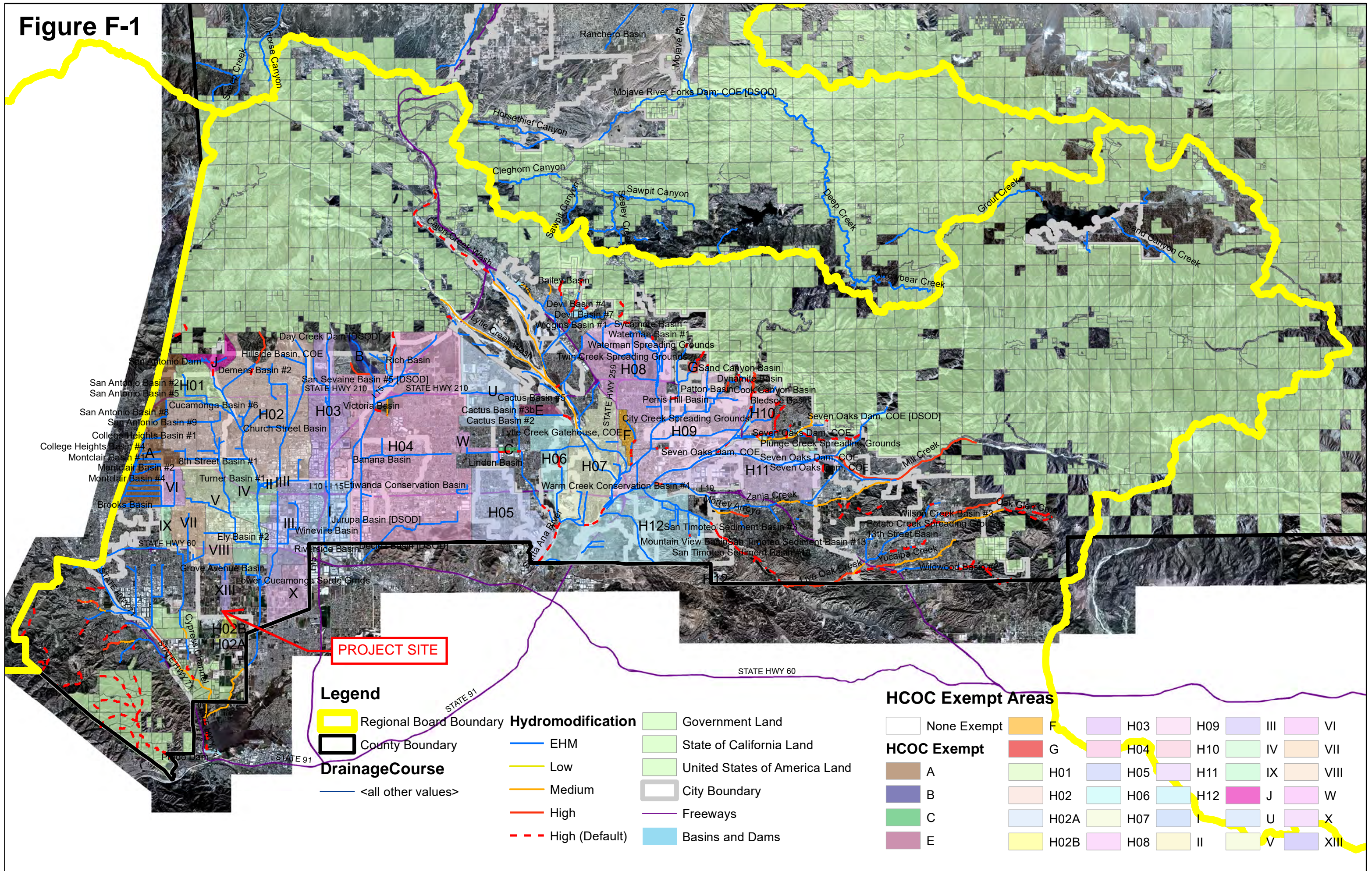


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**6. Site Plan and Conceptual Grading/Drainage Plan requirements for submission with the Preliminary WQMP:**

Provide a Site Plan and Conceptual Grading/Drainage Plan along with this Preliminary WQMP, which conceptually shows the proposed locations of buildings, homes, parking lots, parks, new paved roadways, landscaped areas, drainage patterns and drainage sub-areas, methods of conveyance, proposed retention/infiltration, harvest & use or biotreatment facilities that are planned for installation. Where it is determined to be infeasible to capture and detain design storm runoff volumes, on-site, please include other design features, as described in Section 3, above. Include numbered or lettered notes on the Site Plan with a legend detailing other BMPs, as described in Section 3.

**Figure F-1**



**Legend**

- Regional Board Boundary
- County Boundary
- Drainage Course**
- <all other values>

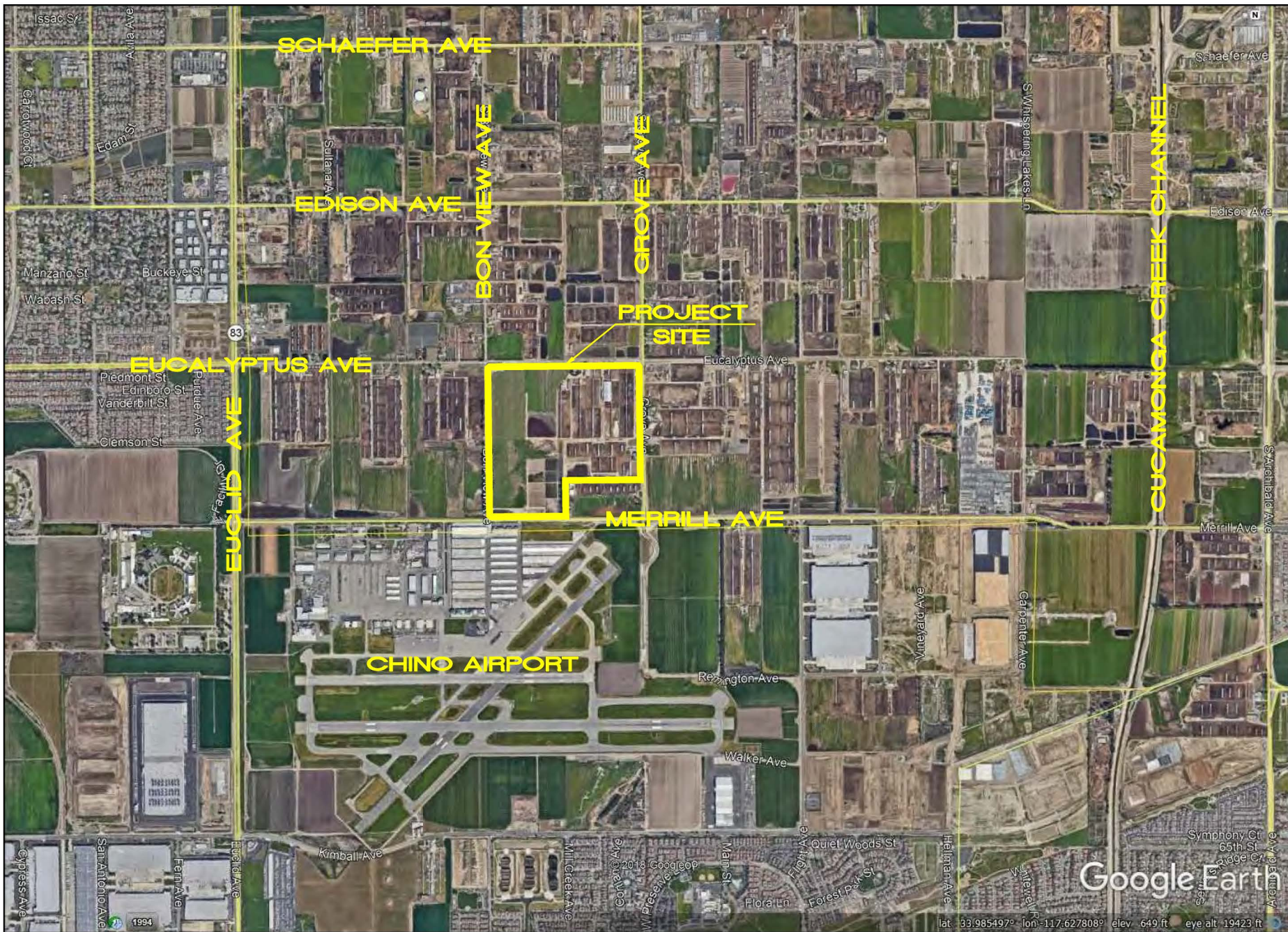
**Hydromodification**

- EHM
- Low
- Medium
- High
- High (Default)

- Government Land
- State of California Land
- United States of America Land
- City Boundary
- Freeways
- Basins and Dams

**HCOC Exempt Areas**

- |  |   |  |  |  |   |
|--|---|--|--|--|---|
| <span style="background-color: #fff2cc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> None Exempt | <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> F    | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H03 | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H09 | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> III | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> VI   |
| <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> HCOC Exempt | <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> G    | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H04 | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H10 | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> IV  | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> VII  |
| <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> A           | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H01  | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H05 | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H11 | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> IX  | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> VIII |
| <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> B           | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H02  | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H06 | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H12 | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> J   | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> W    |
| <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> C           | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H02A | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H07 | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> I   | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> U   | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> X    |
| <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> E           | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H02B | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> H08 | <span style="background-color: #e6f2ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> II  | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> V   | <span style="background-color: #fce4d6; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> XIII |

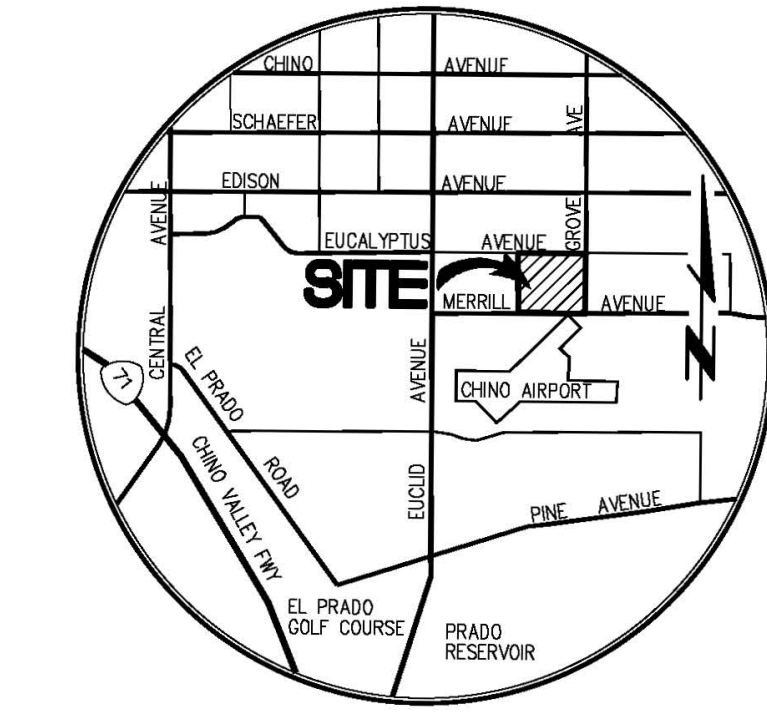


Last Update: 12/14/20  
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**TEI** Thienes Engineering, Inc.  
 CIVIL ENGINEERING • LAND SURVEYING  
 14349 FIRESTONE BOULEVARD  
 LA MIRADA, CALIFORNIA 90638  
 PH. (714) 521-4811 FAX (714) 521-4173

**VICINITY MAP**  
 FOR  
**SOUTH ONTARIO LOGISTICS CENTER**  
**NEC OF MERRILL AVE. AND BON VIEW AVE.**





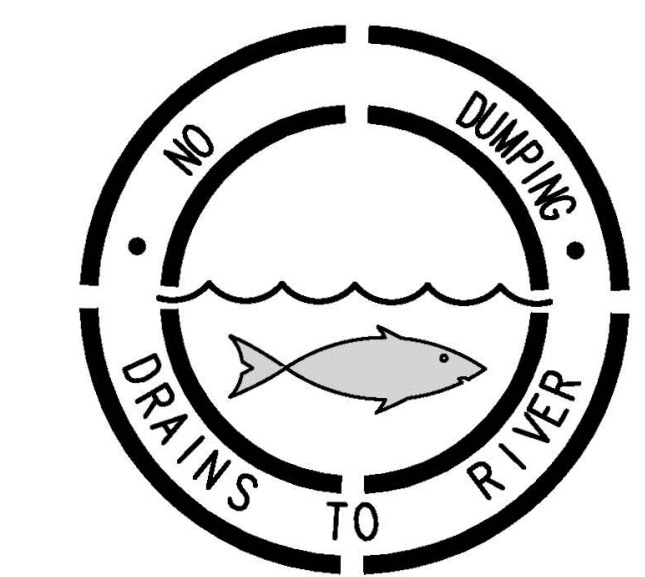
VICINITY MAP  
N.T.S.

**LEGEND**

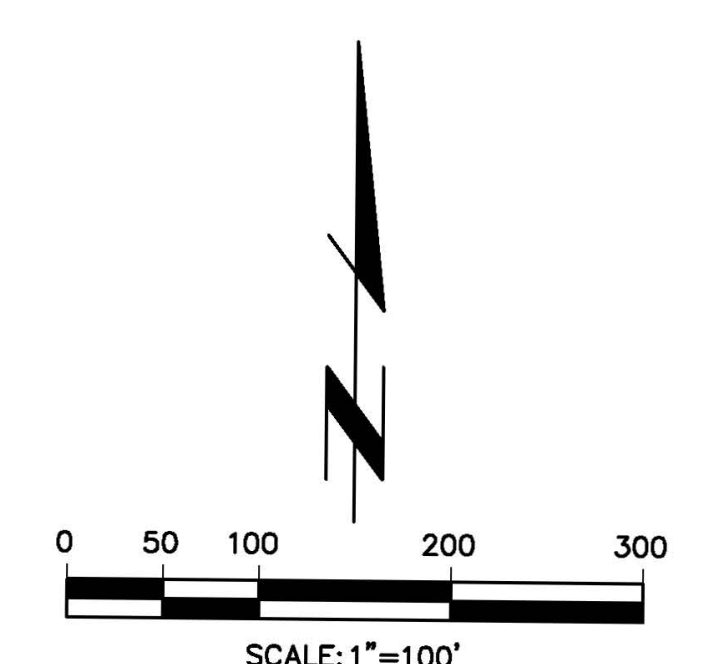
- 1 ABOVEGROUND LOADING DOCK
- 2 LANDSCAPE/IRRIGATION
- 3 STORM DRAIN SYSTEM SIGNS "NO DUMPING - DRAINS TO RIVER"
- 4 BIO CLEAN HYDRODYNAMIC SEPARATOR
- 5 CONTECH 96" UNDERGROUND CMP SYSTEM (PERFORATED)
- 6 DRY WELL
- 7 TRASH ENCLOSURES
- 8 EDUCATIONAL MATERIAL/EMPLOYEE TRAINING
- 9 NOT USED
- 10 VACUUM SWEEPING/LITTER DEBRIS CONTROL
- 11 CATCH BASIN INSPECTION

**NOTES:**

- RD ROOF DRAIN
- CMP UNDERGROUND CMP SYSTEM
- DSBB DEBRIS SEPARATING BAFFLE BOX



SAMPLE STENCIL TO BE USED AT GRATE AND CURB OPENING INLETS  
SAMPLE CATCH BASIN STENCIL



DESIGN CAPTURE VOLUME (DCV) SUMMARY TABLE

DRAINAGE AREAS (DA)	AREA (ACRES)	DCV (CF)	*DRY WELL			96" CMP		TOTAL VOLUME PROVIDED (CF)
			3-HOUR STORM DURATION VOLUME (CF)	VOLUME PROVIDED (CF)	# OF DRY WELLS	VOLUME PROVIDED (CF)	LINEAR FOOTAGE (LF)	
DA 1 DMA A	4.35	21,149	1,982	490	1	21,309	313	23,781
DA 1 DMA B	4.10	19,933	1,982	490	1	20,086	295	22,558
DA 1 DMA C	4.00	19,447	1,982	490	1	19,678	289	22,150
DA 1 DMA D	3.75	18,232	1,982	490	1	18,455	271	20,927
DA 1 DMA E	4.65	22,607	1,982	490	1	22,804	335	25,276
DA 2 DMA A	23.35	113,522	7,927	1,960	4	113,975	1,652	123,862
DA 2 DMA B	23.40	113,765	7,927	1,960	4	114,320	1,657	124,207
DA 2 DMA C	15.00	72,926	5,945	1,470	3	73,296	1,065	80,711
DA 2 DMA D	15.55	75,600	5,945	1,470	3	76,051	1,105	83,466
DA 2 DMA E	21.45	104,284	7,927	1,960	4	104,696	1,521	114,583
DA 2 DMA F	8.35	40,596	3,964	980	2	40,745	599	45,689
<b>TOTAL</b>	<b>127.95</b>	<b>622,060</b>	<b>49,545</b>	<b>12,250</b>	<b>25</b>	<b>625,415</b>	<b>9,102</b>	<b>687,210</b>

\*DRY WELL INFILTRATION RATES PENDING. THESE CALCULATIONS ASSUME THE SAME INFILTRATION RATE FROM PROJECT PDE17-057.

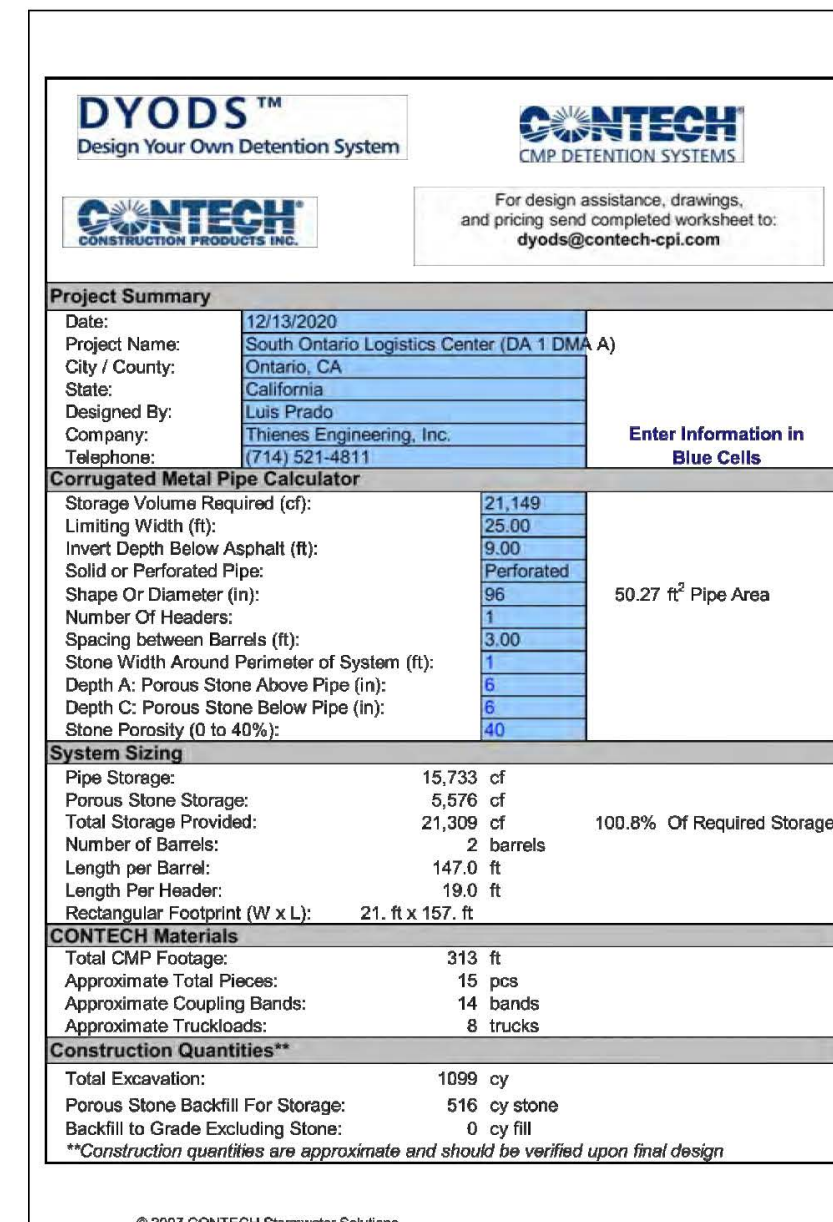
PREPARED FOR:  
REAL ESTATE DEVELOPMENT ASSOCIATES  
4450 MACARTHUR BOULEVARD, SUITE 100  
NEWPORT BEACH, CA 92660  
PHONE: (949) 216-7300  
FAX: (949) 724-1433

PREPARED BY:  
**Thienes Engineering, Inc.**  
CIVIL ENGINEERING - LAND SURVEYING  
14348 FRIESTONE BOULEVARD  
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PH: 714-951-4611 FAX: 714-951-4173

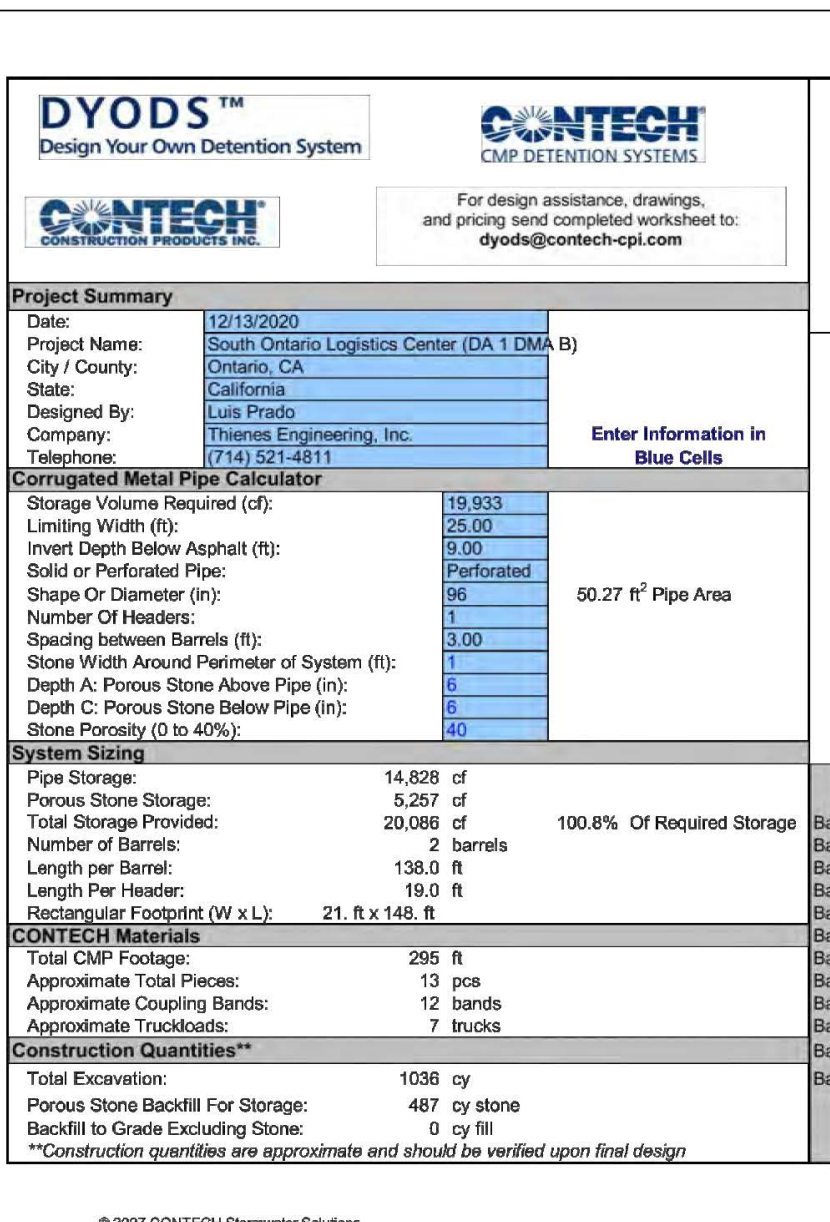
**CITY OF ONTARIO**  
PUBLIC WORKS DEPARTMENT

**WOMP SITE MAP**  
SOUTH ONTARIO LOGISTICS CENTER  
NEC MERRILL AVE. AND BON VIEW AVE.  
ONTARIO, CA

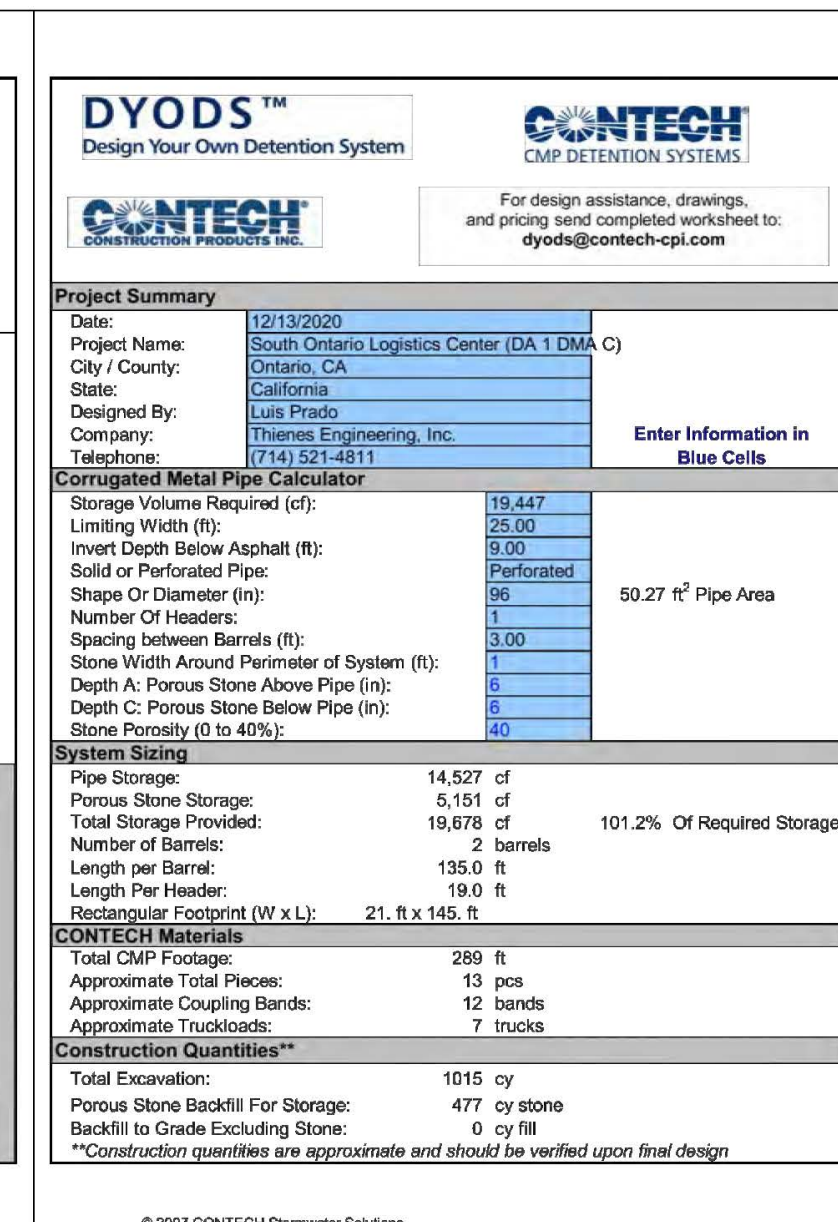
Designed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_  
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Public Works Director: \_\_\_\_\_ R.C.E.  
Sheet **1** of **3** Sheets



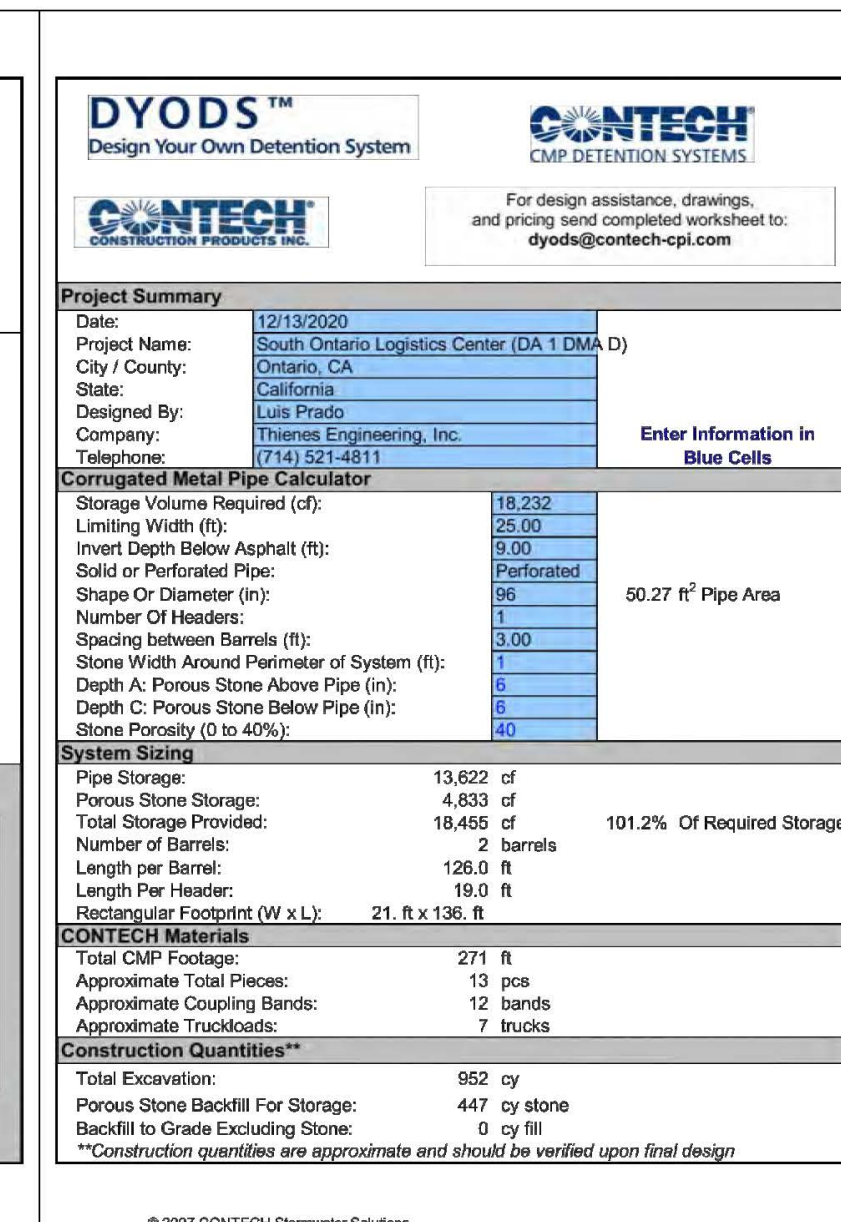
CMP DETAIL (DA1 DMA A)



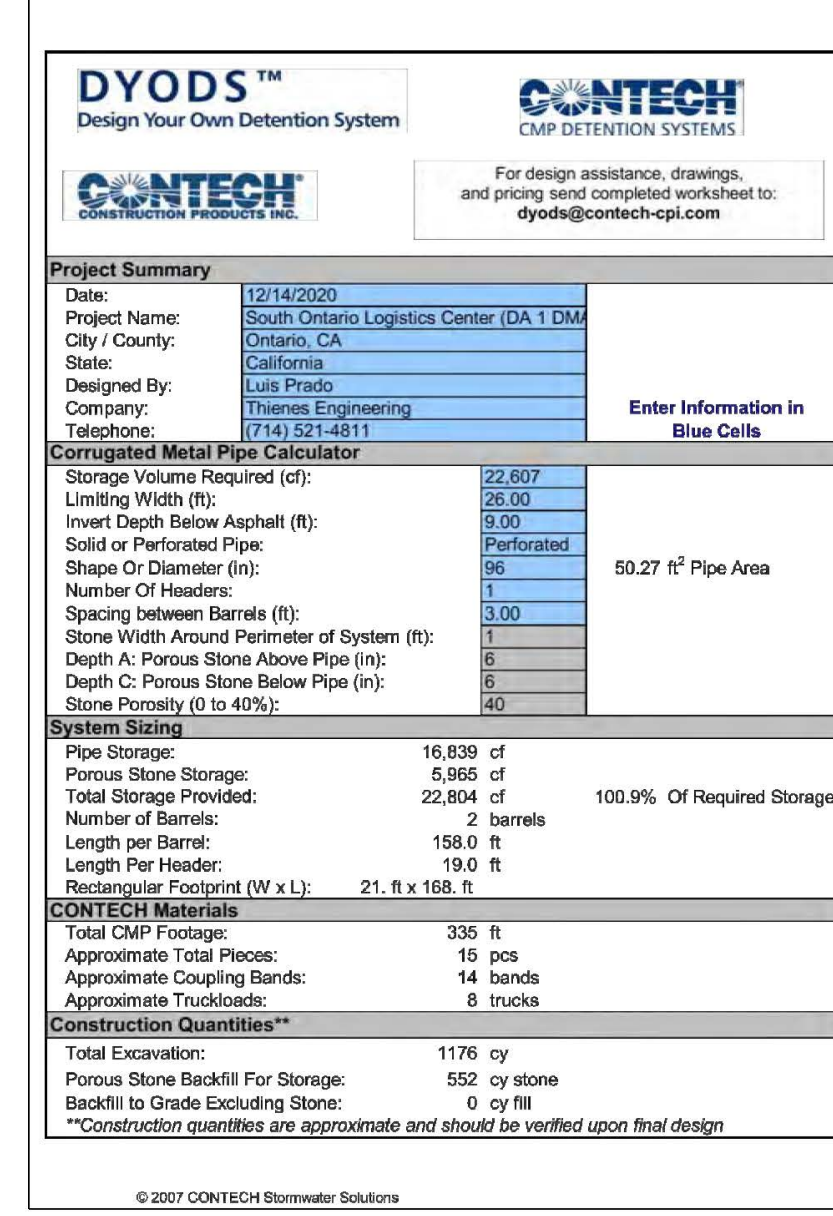
CMP DETAIL (DA1 DMA B)



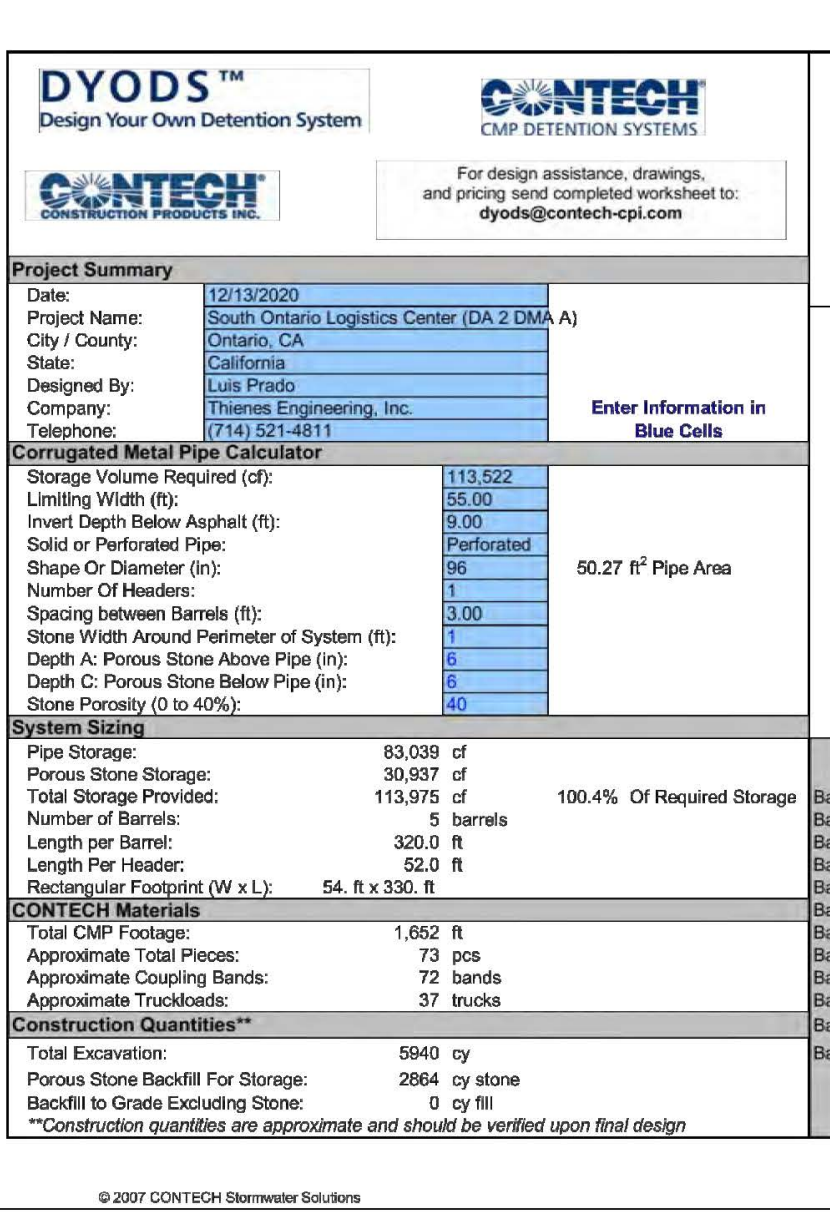
CMP DETAIL (DA1 DMA C)



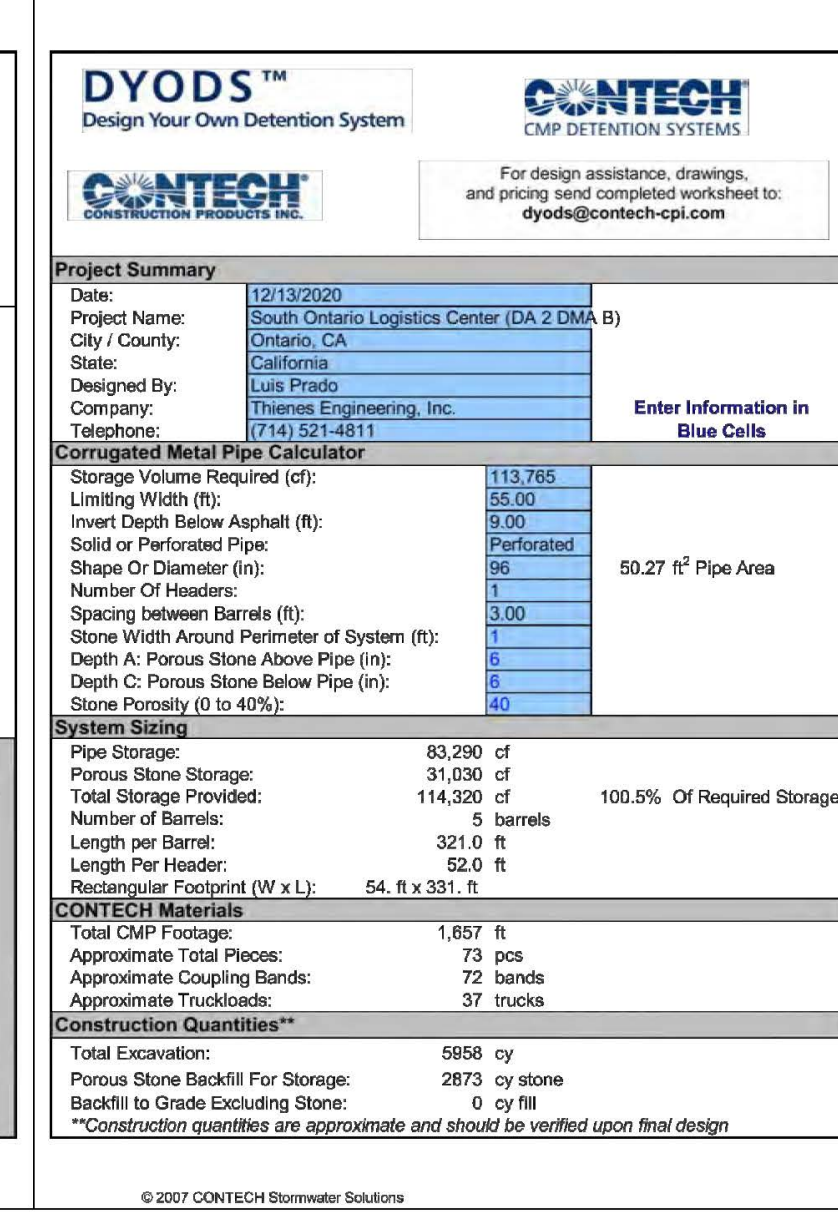
CMP DETAIL (DA1 DMA D)



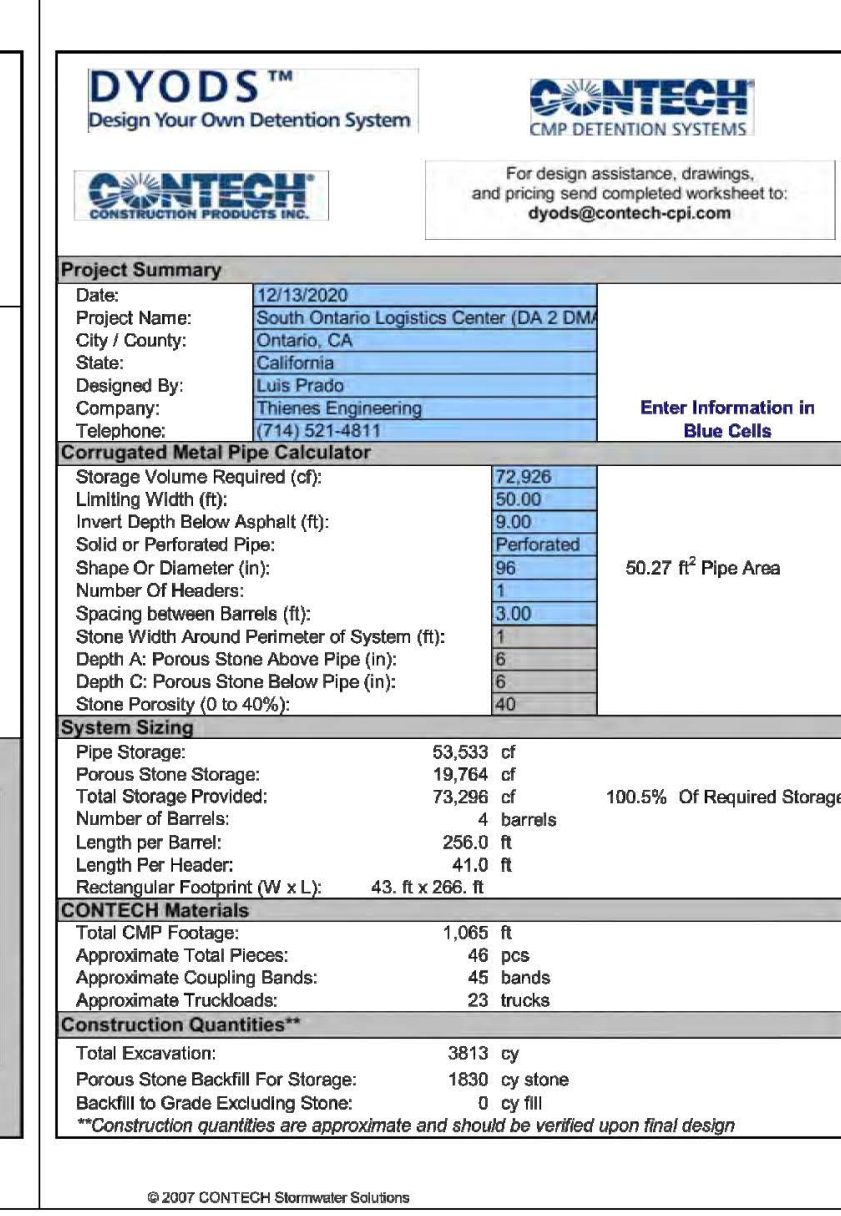
CMP DETAIL (DA1 DMA E)



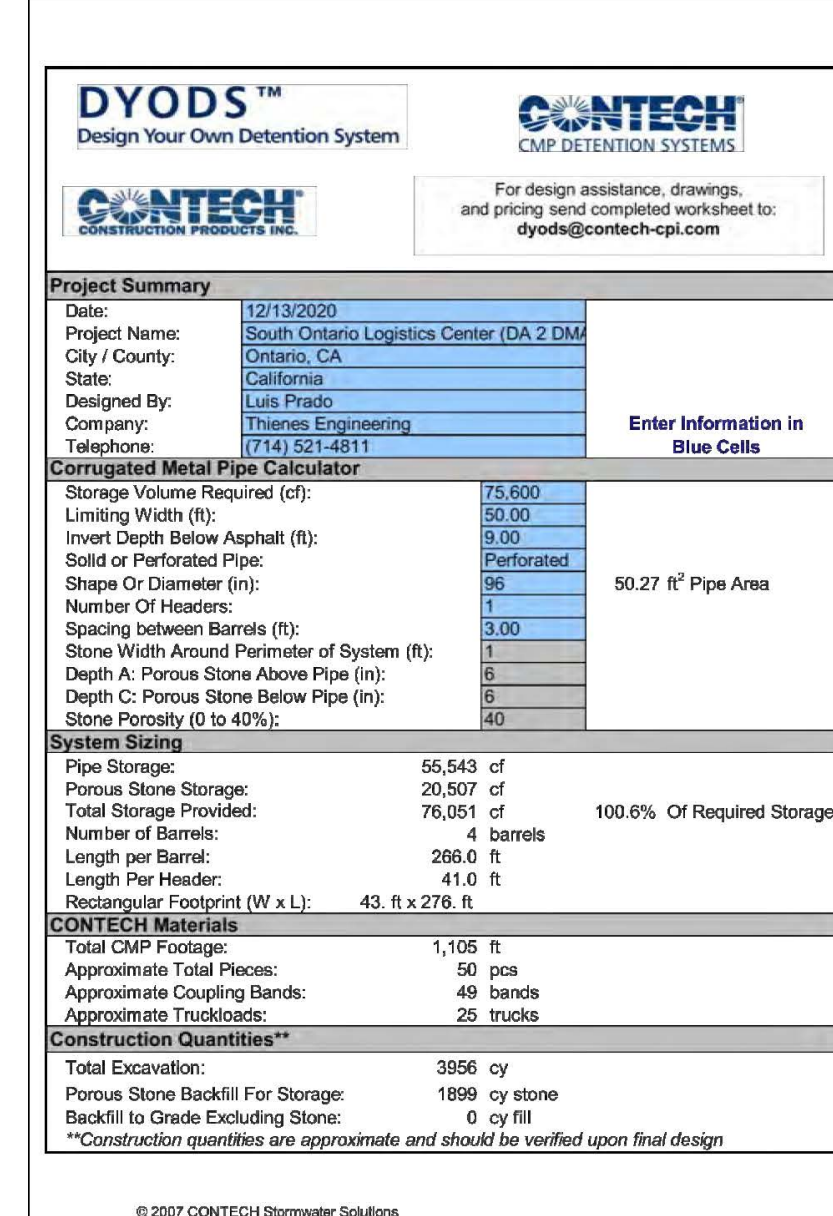
CMP DETAIL (DA2 DMA A)



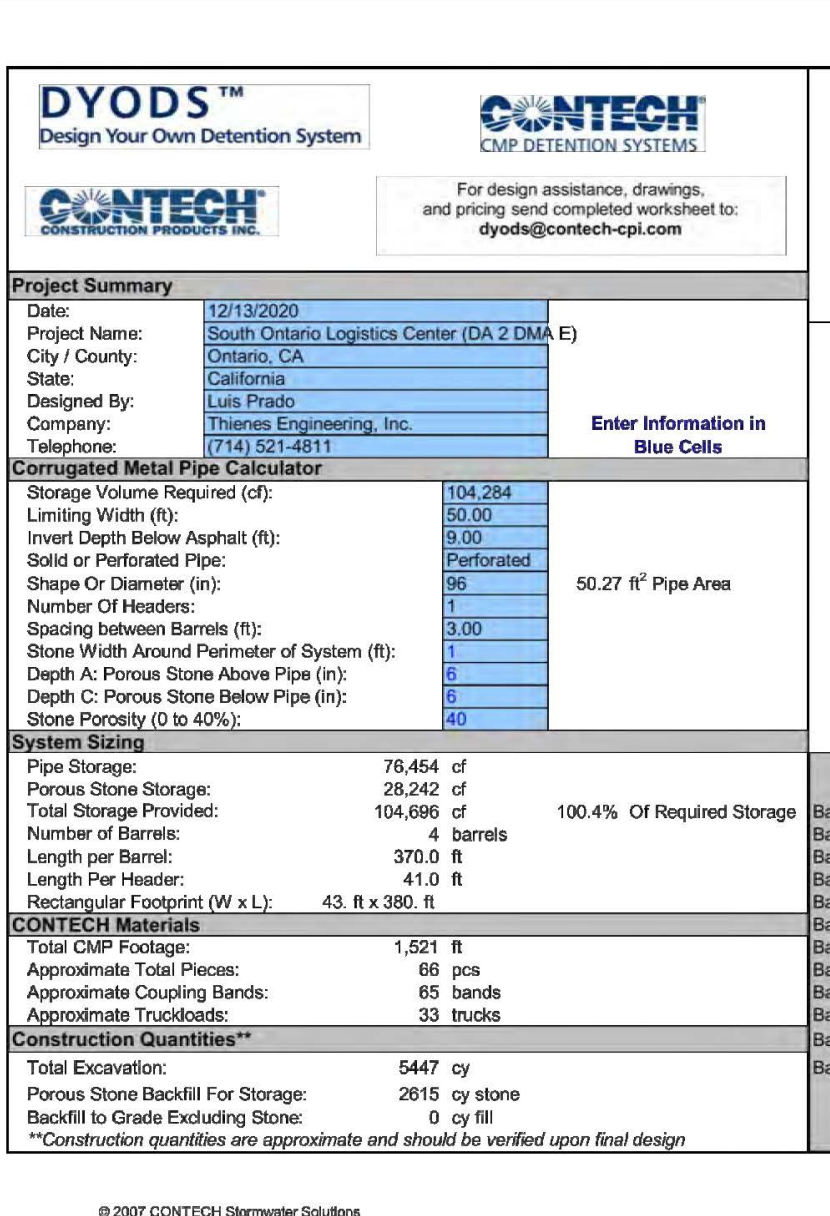
CMP DETAIL (DA2 DMA B)



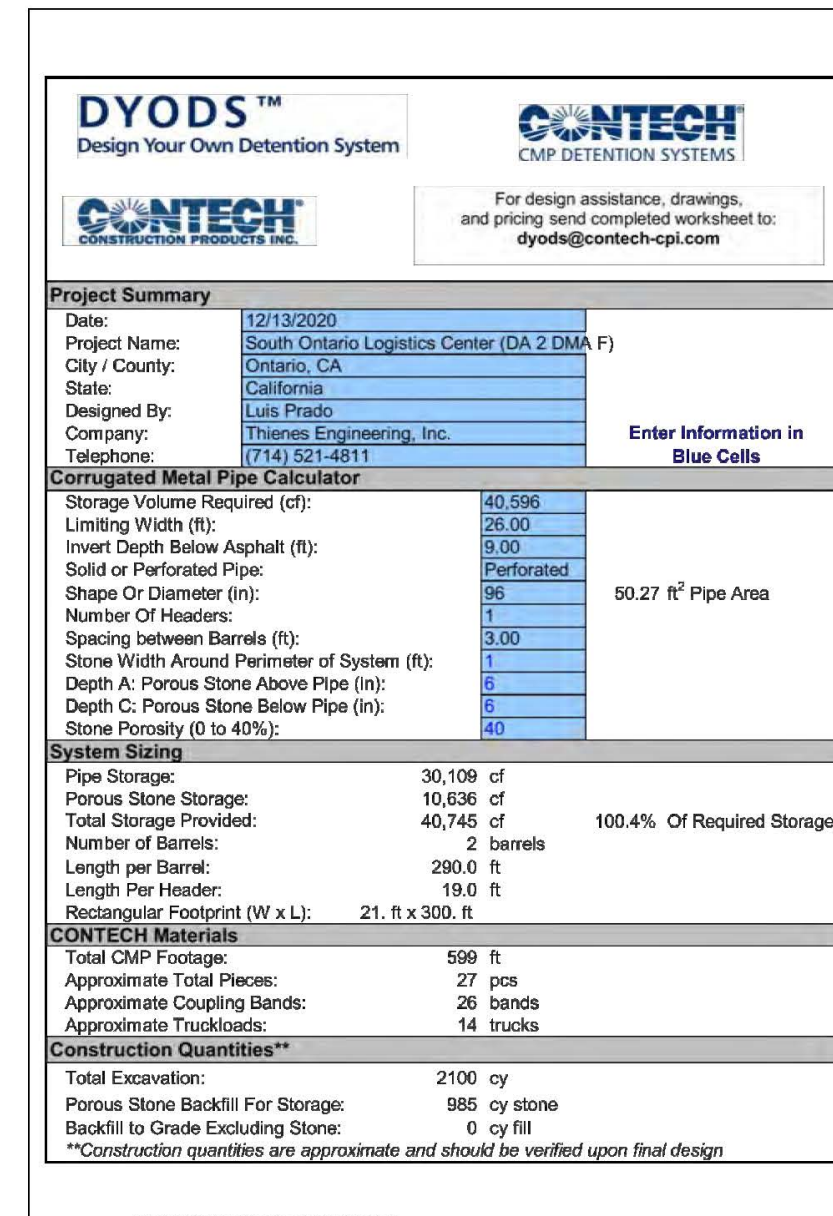
CMP DETAIL (DA2 DMA C)



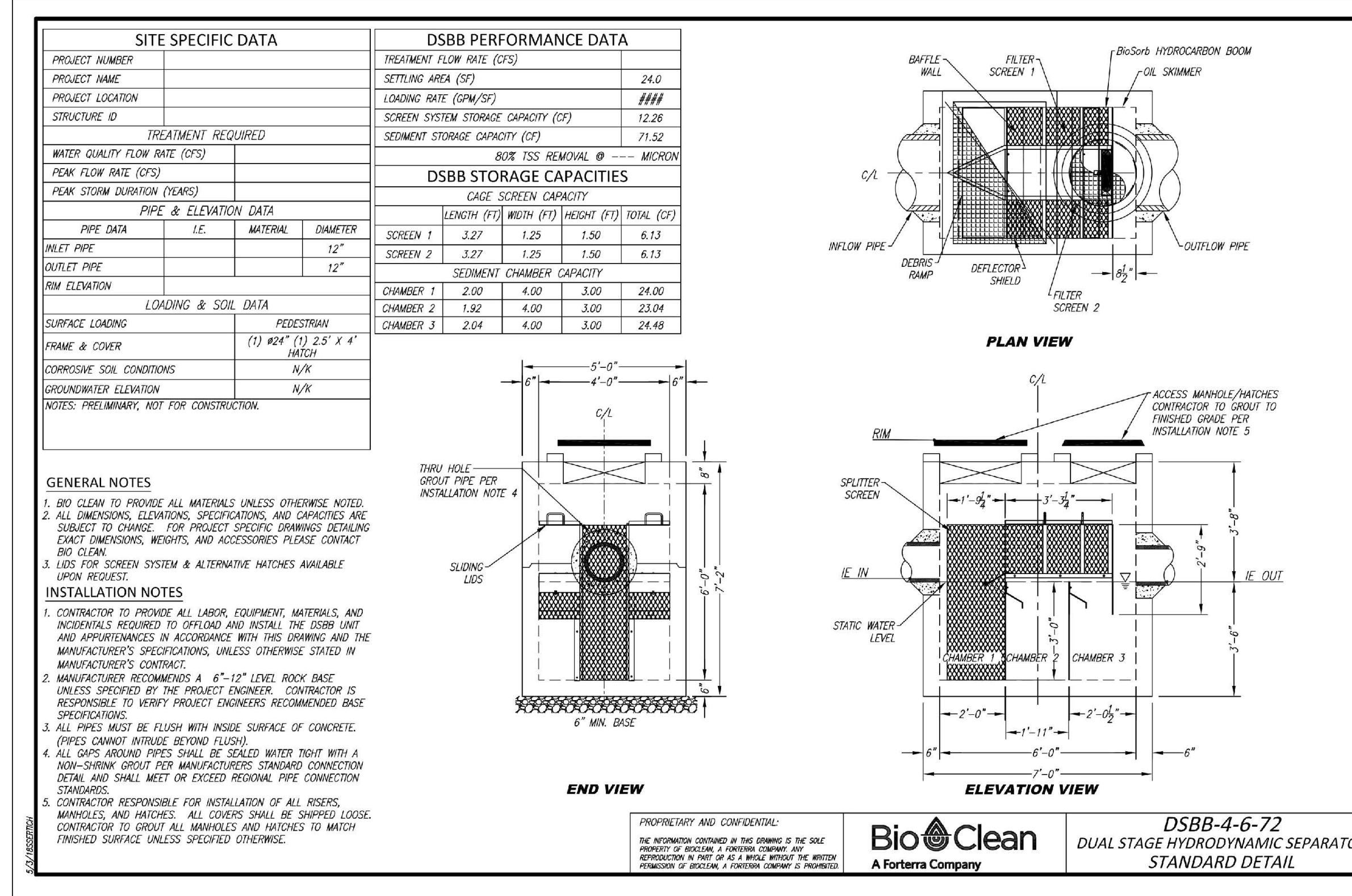
CMP DETAIL (DA2 DMA D)



CMP DETAIL (DA2 DMA E)



CMP DETAIL (DA2 DMA F)



DEBRIS SEPARATING BAFFLE BOX (#2, #3, #4 AND #1)

**CITY OF ONTARIO**  
PUBLIC WORKS DEPARTMENT

**WOMP SITE MAP**  
SOUTH ONTARIO LOGISTICS CENTER  
NEC MERRILL AVE. AND BON VIEW AVE.  
ONTARIO, CA

**PREPARED FOR:**  
REAL ESTATE DEVELOPMENT ASSOCIATES  
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Designed by: \_\_\_\_\_  
Date: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Public Works Director R.C.E.

Sheet **2** of **3** Sheets



# **DCV CALCULATIONS**



## FLOW-BASED BMP DESIGN (ONSITE)

### DA 1 DMA A – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #1

Region		Valley	
Drainage Area (acres)		4.35	acres
Drainage Area (sq-ft)		189,486	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	<b>C =</b>	<b>0.81</b>	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		<b>0.2787</b>	
Intensity BMP (in/hr)		<b>0.318</b>	
Flow (cfs)	Q =	<b>1.12</b>	

Use DSBB-4-8

80% @ 75 Micron treats 1.42 cfs

### DA 1 DMA B – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #2

Region		Valley	
Drainage Area (acres)		4.10	acres
Drainage Area (sq-ft)		178,596	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	<b>C =</b>	<b>0.81</b>	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		<b>0.2787</b>	
Intensity BMP (in/hr)		<b>0.318</b>	
Flow (cfs)	Q =	<b>1.05</b>	

Use DSBB-4-6

80% @ 75 Micron treats 1.06 cfs

### DA 1 DMA C – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #3

Region		Valley	
Drainage Area (acres)		4.00	acres
Drainage Area (sq-ft)		174,240	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	<b>C =</b>	<b>0.81</b>	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		<b>0.2787</b>	
Intensity BMP (in/hr)		<b>0.318</b>	
Flow (cfs)	Q =	<b>1.03</b>	

Use DSBB-4-6

80% @ 75 Micron treats 1.06 cfs

#### DA 1 DMA D – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #4

Region		Valley	
Drainage Area (acres)		3.75	acres
Drainage Area (sq-ft)		163,350	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	0.96	

Use DSBB-4-6

80% @ 75 Micron treats 1.06 cfs

#### DA 1 DMA E – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #5

Region		Valley	
Drainage Area (acres)		4.65	acres
Drainage Area (sq-ft)		202,554	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	1.19	

Use DSBB-4-8

80% @ 75 Micron treats 1.42 cfs

#### DA 2 DMA A – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #6

Region		Valley	
Drainage Area (acres)		23.35	acres
Drainage Area (sq-ft)		1,017,126	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	6.00	

Use DSBB-10-18

80% @ 75 Micron treats 7.98 cfs

### DA 2 DMA B – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #7

Region		Valley	
Drainage Area (acres)		23.40	acres
Drainage Area (sq-ft)		1,019,304	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	6.01	

Use DSBB-10-18

80% @ 75 Micron treats 7.98 cfs

### DA 2 DMA C – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #8

Region		Valley	
Drainage Area (acres)		15.00	acres
Drainage Area (sq-ft)		653,400	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	3.85	

Use DSBB-8-14

80% @ 75 Micron treats 4.96 cfs

### DA 2 DMA D – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #9

Region		Valley	
Drainage Area (acres)		15.55	acres
Drainage Area (sq-ft)		677,358	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	3.99	

Use DSBB-8-14

80% @ 75 Micron treats 4.96 cfs

### DA 2 DMA E – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #10

Region		Valley	
Drainage Area (acres)		21.45	acres
Drainage Area (sq-ft)		934,362	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	5.51	

Use DSBB-8-16

80% @ 75 Micron treats 5.67 cfs

### DA 2 DMA F1 – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #11

Region		Valley	
Drainage Area (acres)		3.00	acres
Drainage Area (sq-ft)		130,680	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	0.77	

Use DSBB-4-6

80% @ 75 Micron treats 1.06 cfs

### DA 2 DMA F2 – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #12

Region		Valley	
Drainage Area (acres)		5.35	acres
Drainage Area (sq-ft)		233,046	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.81	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	1.37	

Use DSBB-4-8

80% @ 75 Micron treats 1.42 cfs

## VOLUME-BASED BMP DESIGN (ONSITE)

### DA 1 DMA A – CMP #1 AND DRY WELL #1

Region		Valley	
Drainage Area (acres)		4.35	acres
Drainage Area (sq-ft)		189,486	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		21,149	cu-ft
DCV		0.486	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA A)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	21,149	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	490	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	31,709	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	1,982	ft <sup>3</sup>
Total Infiltration Flowrate =	0.1835	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.



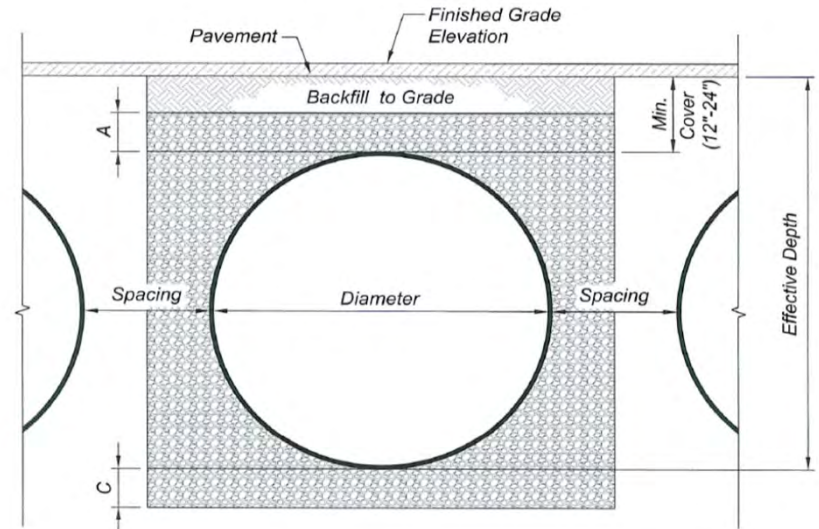
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA A)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in  
Blue Cells

**Corrugated Metal Pipe Calculator**

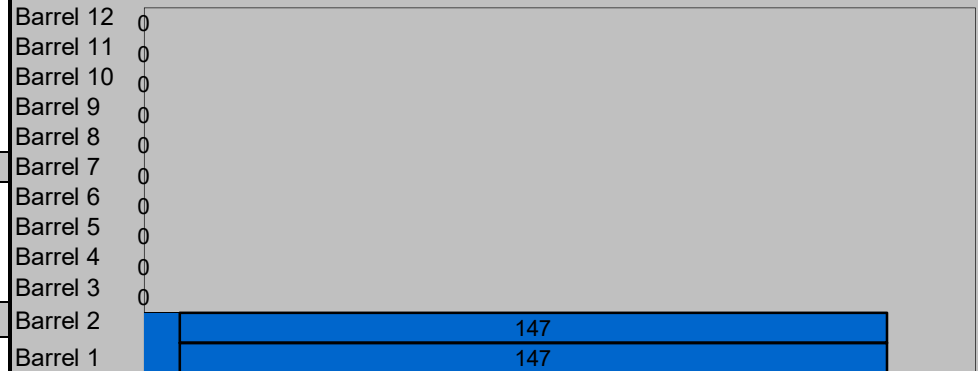
Storage Volume Required (cf):	21,149	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	15,733 cf	
Porous Stone Storage:	5,576 cf	
Total Storage Provided:	21,309 cf	100.8% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	147.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 157. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	313 ft
Approximate Total Pieces:	15 pcs
Approximate Coupling Bands:	14 bands
Approximate Truckloads:	8 trucks

**Construction Quantities\*\***

Total Excavation:	1099 cy
Porous Stone Backfill For Storage:	516 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

## DA 1 DMA B – CMP #2 AND DRY WELL #2

Region		Valley	
Drainage Area (acres)		4.10	acres
Drainage Area (sq-ft)		178,596	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		19,933	cu-ft
DCV		0.458	acre-ft



## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA B)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	19,933	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	490	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	31,709	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	1,982	ft <sup>3</sup>
Total Infiltration Flowrate =	0.1835	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



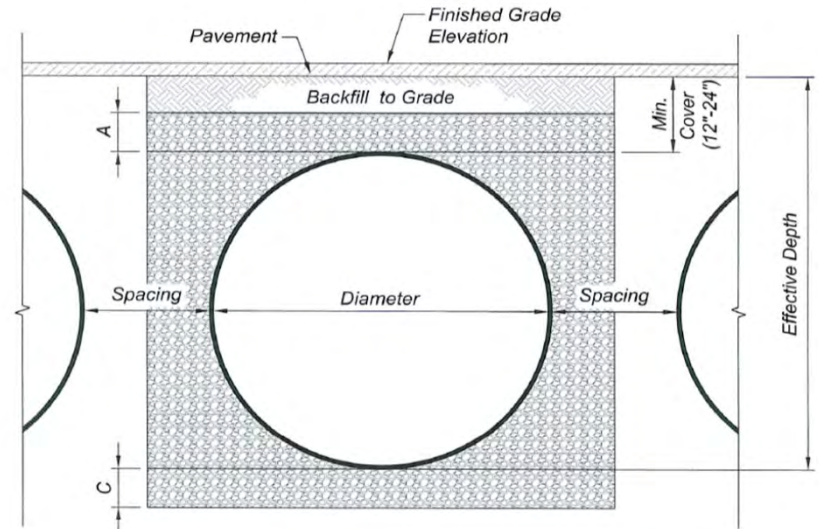
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA B)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

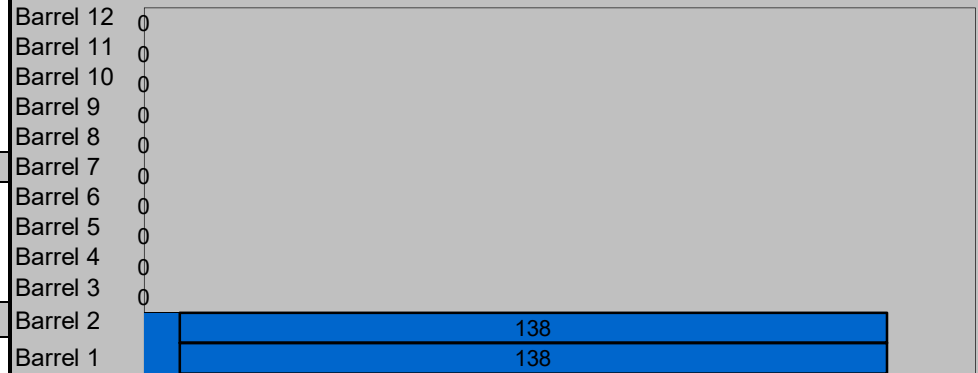
Storage Volume Required (cf):	19,933	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	14,828 cf	
Porous Stone Storage:	5,257 cf	
Total Storage Provided:	20,086 cf	100.8% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	138.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 148. ft	

**System Layout**



Barrel Footage (w/o headers)

**CONTECH Materials**

Total CMP Footage:	295 ft
Approximate Total Pieces:	13 pcs
Approximate Coupling Bands:	12 bands
Approximate Truckloads:	7 trucks

**Construction Quantities\*\***

Total Excavation:	1036 cy
Porous Stone Backfill For Storage:	487 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

### DA 1 DMA C – CMP #3 AND DRY WELL #3

Region		Valley	
Drainage Area (acres)		4.00	acres
Drainage Area (sq-ft)		174,240	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		19,447	cu-ft
DCV		0.446	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA C)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	19,447	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	490	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	31,709	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	1,982	ft <sup>3</sup>
Total Infiltration Flowrate =	0.1835	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



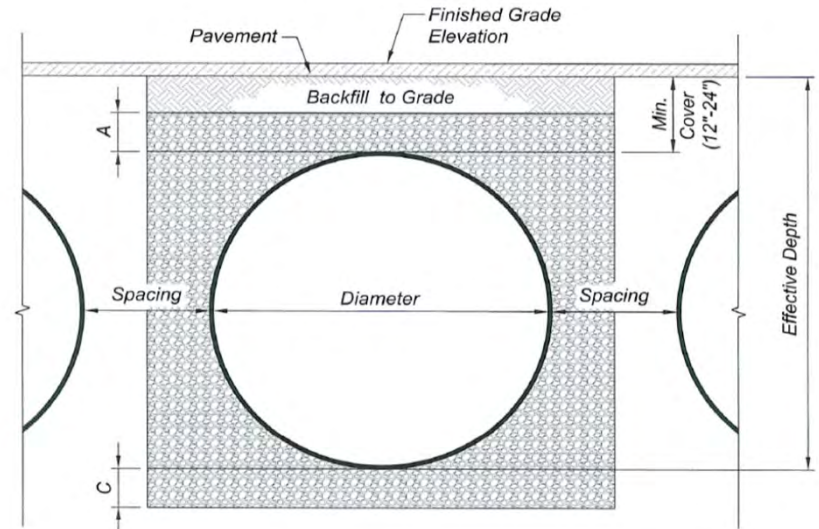
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA C)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

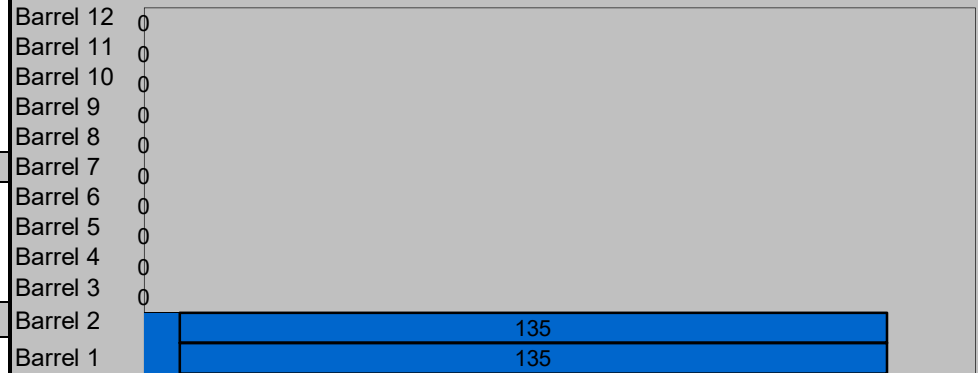
Storage Volume Required (cf):	19,447	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	14,527 cf	
Porous Stone Storage:	5,151 cf	
Total Storage Provided:	19,678 cf	101.2% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	135.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 145. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	289 ft
Approximate Total Pieces:	13 pcs
Approximate Coupling Bands:	12 bands
Approximate Truckloads:	7 trucks

**Construction Quantities\*\***

Total Excavation:	1015 cy
Porous Stone Backfill For Storage:	477 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

#### DA 1 DMA D – CMP #4 AND DRY WELL #4

Region		Valley	
Drainage Area (acres)		3.75	acres
Drainage Area (sq-ft)		163,350	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		18,232	cu-ft
DCV		0.419	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA D)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	18,232	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	490	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	31,709	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	1,982	ft <sup>3</sup>
Total Infiltration Flowrate =	0.1835	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



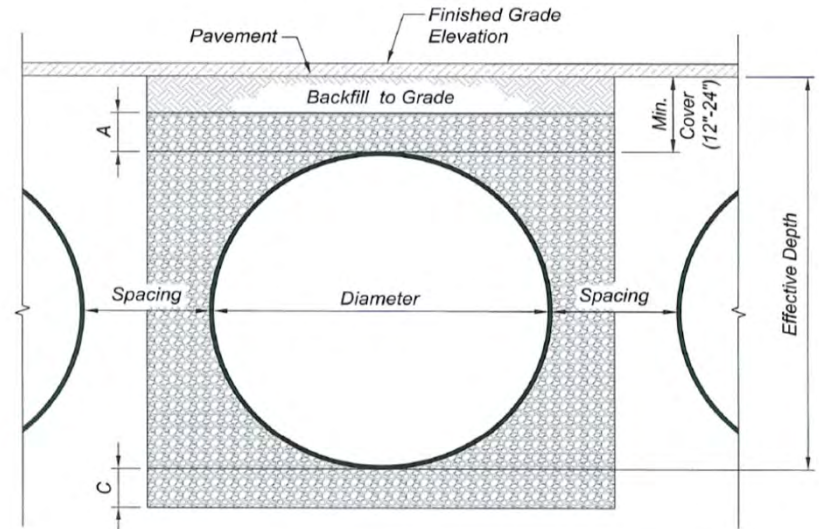
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA D)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

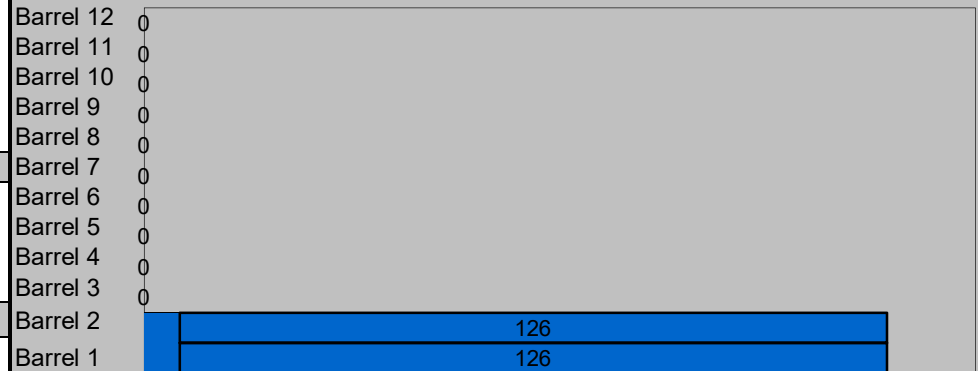
Storage Volume Required (cf):	18,232	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	13,622 cf	
Porous Stone Storage:	4,833 cf	
Total Storage Provided:	18,455 cf	101.2% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	126.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 136. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	271 ft
Approximate Total Pieces:	13 pcs
Approximate Coupling Bands:	12 bands
Approximate Truckloads:	7 trucks

**Construction Quantities\*\***

Total Excavation:	952 cy
Porous Stone Backfill For Storage:	447 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design



**DA 1 DMA E – CMP #5 AND DRY WELL #5**

Region		Valley	
Drainage Area (acres)		4.65	acres
Drainage Area (sq-ft)		202,554	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		22,607	cu-ft
DCV		0.519	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA E)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	22,607	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	490	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	31,709	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	1,982	ft <sup>3</sup>
Total Infiltration Flowrate =	0.1835	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.



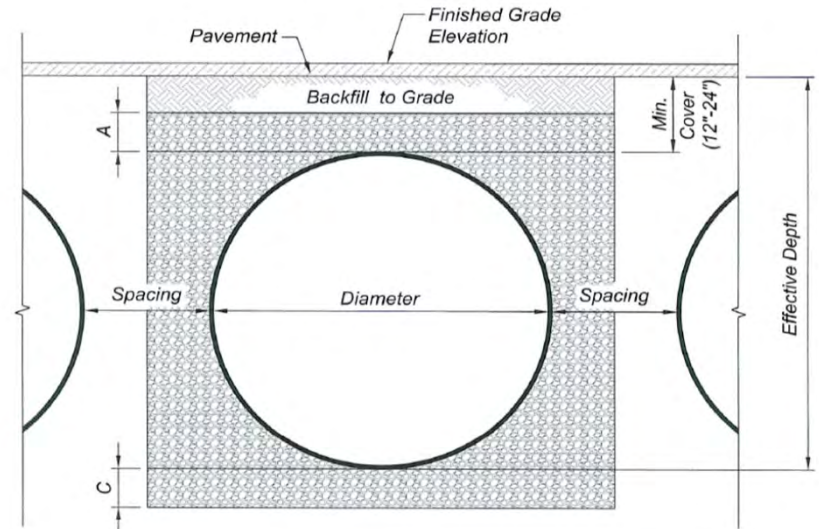
**Project Summary**

Date:	12/14/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

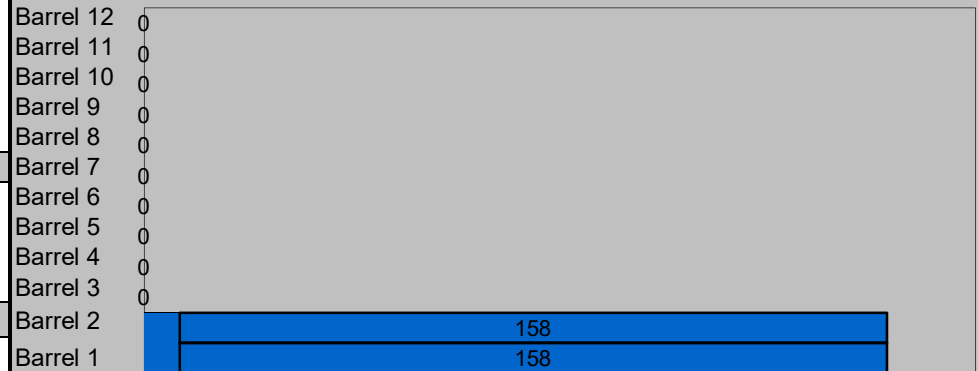
Storage Volume Required (cf):	22,607	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	26.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	16,839 cf	
Porous Stone Storage:	5,965 cf	
Total Storage Provided:	22,804 cf	100.9% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	158.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 168. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	335 ft
Approximate Total Pieces:	15 pcs
Approximate Coupling Bands:	14 bands
Approximate Truckloads:	8 trucks

**Construction Quantities\*\***

Total Excavation:	1176 cy
Porous Stone Backfill For Storage:	552 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

## DA 2 DMA A – CMP #6 AND DRY WELL #6

Region		Valley	
Drainage Area (acres)		23.35	acres
Drainage Area (sq-ft)		1,017,126	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		113,522	cu-ft
DCV		2.606	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA A)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	113,522	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	1,960	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	126,835	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	7,927	ft <sup>3</sup>
Total Infiltration Flowrate =	0.7340	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



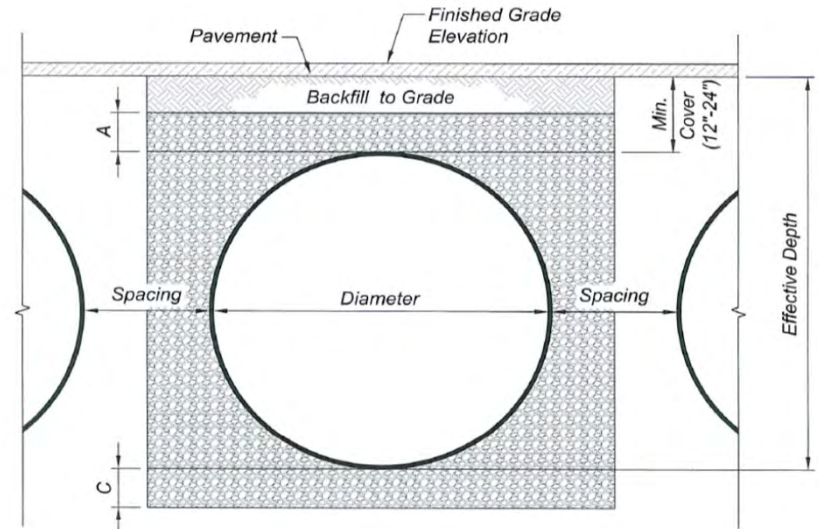
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA A)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

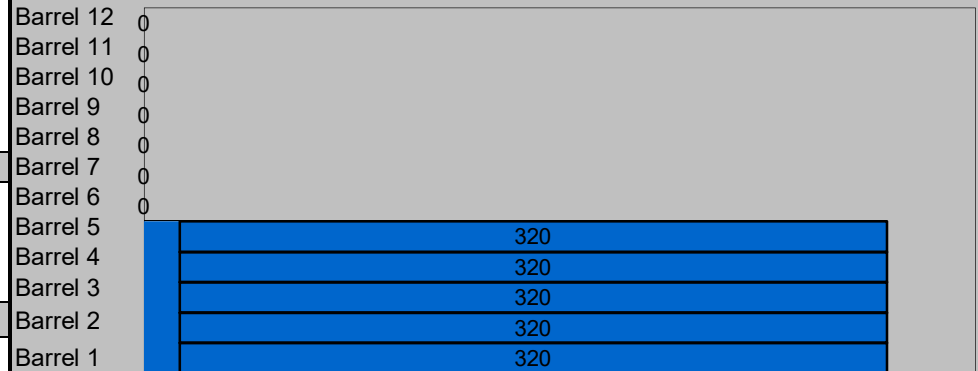
Storage Volume Required (cf):	113,522	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	55.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	83,039 cf	
Porous Stone Storage:	30,937 cf	
Total Storage Provided:	113,975 cf	100.4% Of Required Storage
Number of Barrels:	5 barrels	
Length per Barrel:	320.0 ft	
Length Per Header:	52.0 ft	
Rectangular Footprint (W x L):	54. ft x 330. ft	

**System Layout**



Barrel Footage (w/o headers)

**CONTECH Materials**

Total CMP Footage:	1,652 ft
Approximate Total Pieces:	73 pcs
Approximate Coupling Bands:	72 bands
Approximate Truckloads:	37 trucks

**Construction Quantities\*\***

Total Excavation:	5940 cy
Porous Stone Backfill For Storage:	2864 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

## DA 2 DMA B – CMP #7 AND DRY WELL #7

Region		Valley	
Drainage Area (acres)		23.40	acres
Drainage Area (sq-ft)		1,019,304	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		113,765	cu-ft
DCV		2.612	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA B)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	113,765	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	1,960	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	126,835	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	7,927	ft <sup>3</sup>
Total Infiltration Flowrate =	0.7340	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.



For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



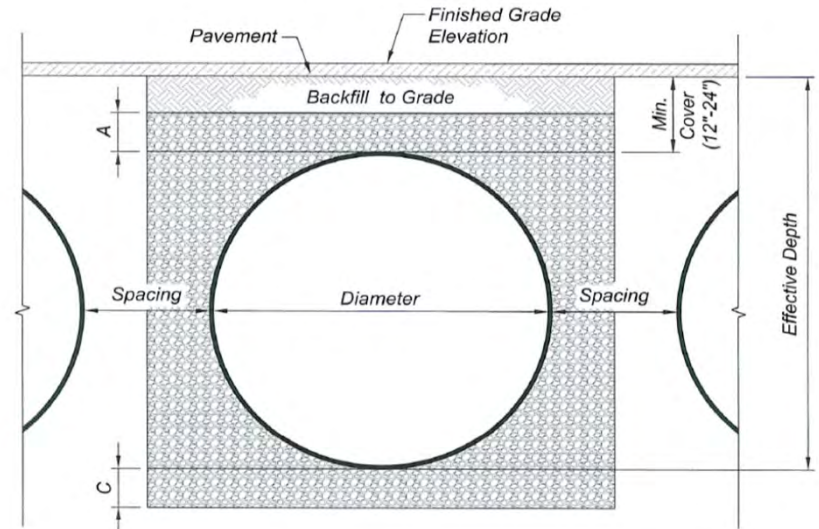
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA B)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in  
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**Corrugated Metal Pipe Calculator**

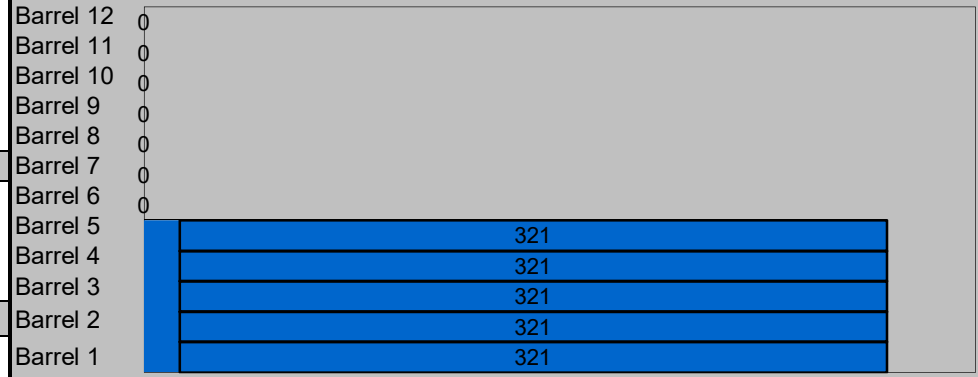
Storage Volume Required (cf):	113,765	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	55.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	83,290 cf	
Porous Stone Storage:	31,030 cf	
Total Storage Provided:	114,320 cf	100.5% Of Required Storage
Number of Barrels:	5 barrels	
Length per Barrel:	321.0 ft	
Length Per Header:	52.0 ft	
Rectangular Footprint (W x L):	54. ft x 331. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	1,657 ft
Approximate Total Pieces:	73 pcs
Approximate Coupling Bands:	72 bands
Approximate Truckloads:	37 trucks

**Construction Quantities\*\***

Total Excavation:	5958 cy
Porous Stone Backfill For Storage:	2873 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

### DA 2 DMA C – CMP #8 AND DRY WELL #8

Region		Valley	
Drainage Area (acres)		15.00	acres
Drainage Area (sq-ft)		653,400	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		72,926	cu-ft
DCV		1.674	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA C)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	72,926	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	3	
Total Volume Provided in Drywells =	1,470	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	95,126	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	5,945	ft <sup>3</sup>
Total Infiltration Flowrate =	0.5505	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



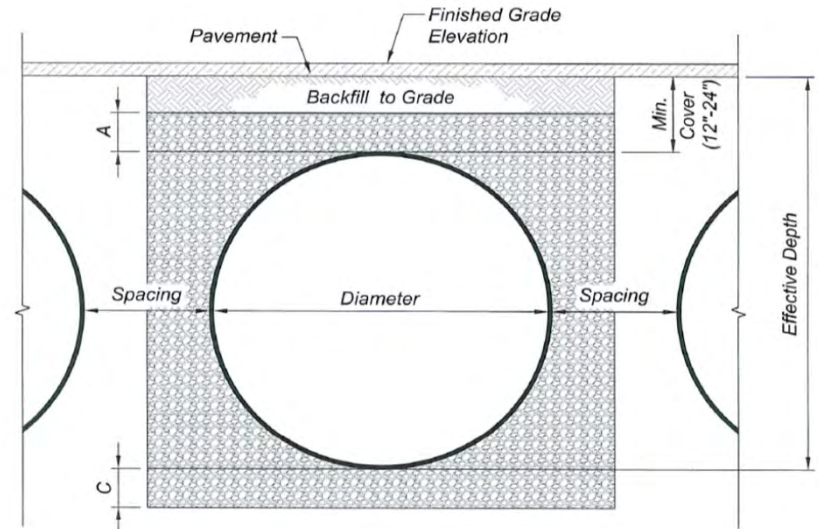
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

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**Corrugated Metal Pipe Calculator**

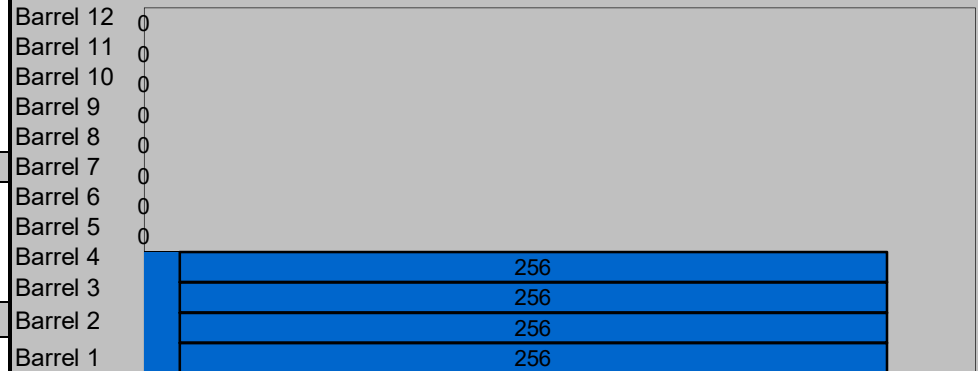
Storage Volume Required (cf):	72,926	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	50.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	53,533 cf	
Porous Stone Storage:	19,764 cf	
Total Storage Provided:	73,296 cf	100.5% Of Required Storage
Number of Barrels:	4 barrels	
Length per Barrel:	256.0 ft	
Length Per Header:	41.0 ft	
Rectangular Footprint (W x L):	43. ft x 266. ft	

**System Layout**



Barrel Footage (w/o headers)

**Construction Quantities\*\***

Total Excavation:	3813 cy
Porous Stone Backfill For Storage:	1830 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

**DA 2 DMA D – CMP #9 AND DRY WELL #9**

Region		Valley	
Drainage Area (acres)		15.55	acres
Drainage Area (sq-ft)		677,358	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		75,600	cu-ft
DCV		1.736	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA D)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	75,600	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	3	
Total Volume Provided in Drywells =	1,470	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	95,126	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	5,945	ft <sup>3</sup>
Total Infiltration Flowrate =	0.5505	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



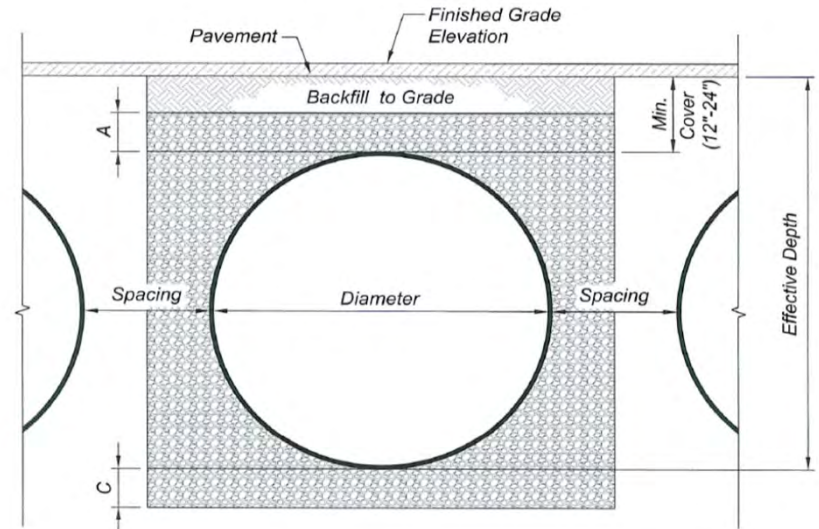
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

Enter Information in  
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**Corrugated Metal Pipe Calculator**

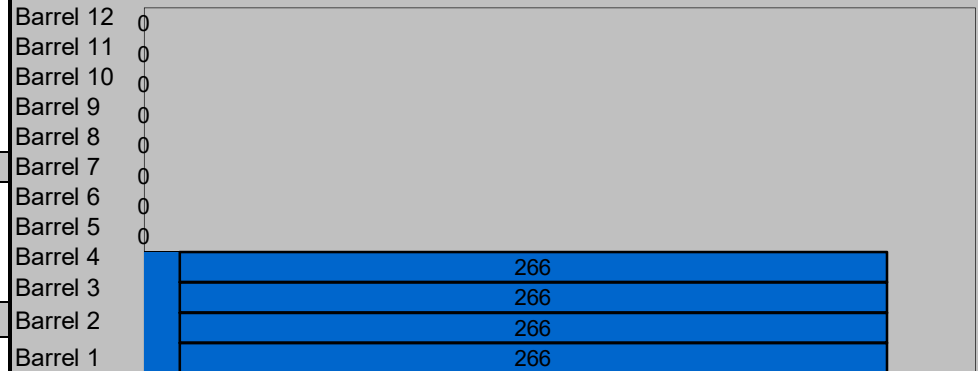
Storage Volume Required (cf):	75,600	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	50.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	55,543 cf	
Porous Stone Storage:	20,507 cf	
Total Storage Provided:	76,051 cf	100.6% Of Required Storage
Number of Barrels:	4 barrels	
Length per Barrel:	266.0 ft	
Length Per Header:	41.0 ft	
Rectangular Footprint (W x L):	43. ft x 276. ft	

**System Layout**



Barrel Footage (w/o headers)

**CONTECH Materials**

Total CMP Footage:	1,105 ft
Approximate Total Pieces:	50 pcs
Approximate Coupling Bands:	49 bands
Approximate Truckloads:	25 trucks

**Construction Quantities\*\***

Total Excavation:	3956 cy
Porous Stone Backfill For Storage:	1899 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

**DA 2 DMA E – CMP #10 AND DRY WELL #10**

Region		Valley	
Drainage Area (acres)		21.45	acres
Drainage Area (sq-ft)		934,362	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		104,284	cu-ft
DCV		2.394	acre-ft



## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA E)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	104,284	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	1,960	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	126,835	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	7,927	ft <sup>3</sup>
Total Infiltration Flowrate =	0.7340	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



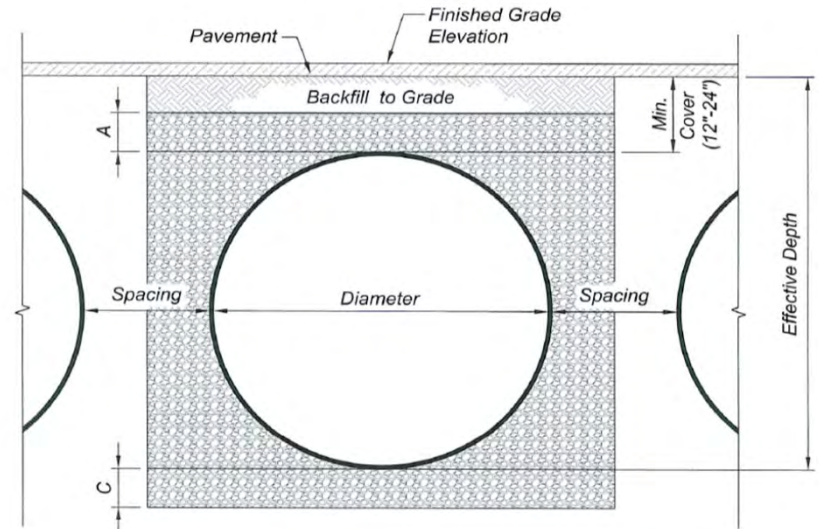
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA E)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in  
Blue Cells

**Corrugated Metal Pipe Calculator**

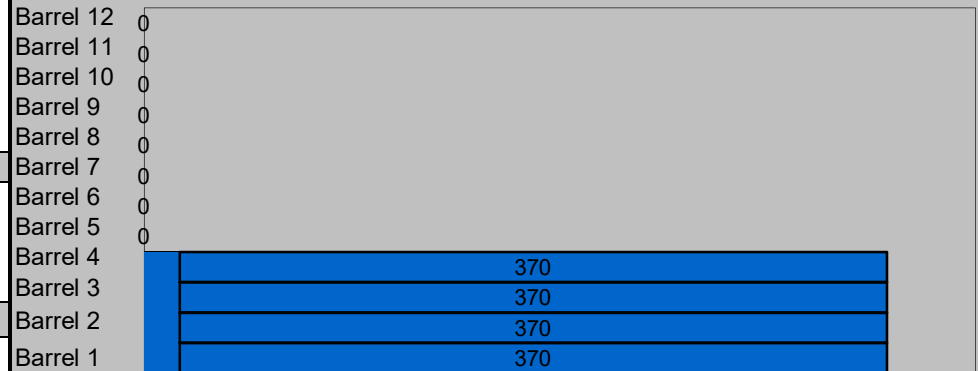
Storage Volume Required (cf):	104,284	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	50.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	76,454 cf	
Porous Stone Storage:	28,242 cf	
Total Storage Provided:	104,696 cf	100.4% Of Required Storage
Number of Barrels:	4 barrels	
Length per Barrel:	370.0 ft	
Length Per Header:	41.0 ft	
Rectangular Footprint (W x L):	43. ft x 380. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	1,521 ft
Approximate Total Pieces:	66 pcs
Approximate Coupling Bands:	65 bands
Approximate Truckloads:	33 trucks

**Construction Quantities\*\***

Total Excavation:	5447 cy
Porous Stone Backfill For Storage:	2615 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

## DA 2 DMA F – CMP #11 AND DRY WELL #11

Region		Valley	
Drainage Area (acres)		8.35	acres
Drainage Area (sq-ft)		363,726	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	C =	0.807	
<a href="#">1-hr 2-yr from NOAA</a>		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		40,596	cu-ft
DCV		0.932	acre-ft

## MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA F)

### Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	0.1835	cfs
Design Capture Volume (DCV) =	40,596	ft <sup>3</sup>
Required Drawdown Time =	48	hours
Minimum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	12.57	ft <sup>2</sup>
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	12.57	ft <sup>2</sup>
Drywell Rock Shaft Depth =	35	ft

### Volume of disposal for each drywell based on various time frames are included below.

48 hours =	31,709	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>
3 hours =	1,982	ft <sup>3</sup>	<i>Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)</i>

### Volume provided in each drywell

Volume Provided =	490	ft <sup>3</sup>	<i>(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)</i>
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### Maxwell System Design

# of Drywells Provided =	2	
Total Volume Provided in Drywells =	980	ft <sup>3</sup>
Total Volume Infiltrated in 48 hours =	63,418	ft <sup>3</sup>
Total Volume Infiltrated in 3 hours =	3,964	ft <sup>3</sup>
Total Infiltration Flowrate =	0.3670	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

For design assistance, drawings,  
and pricing send completed worksheet to:  
[dyods@contech-cpi.com](mailto:dyods@contech-cpi.com)



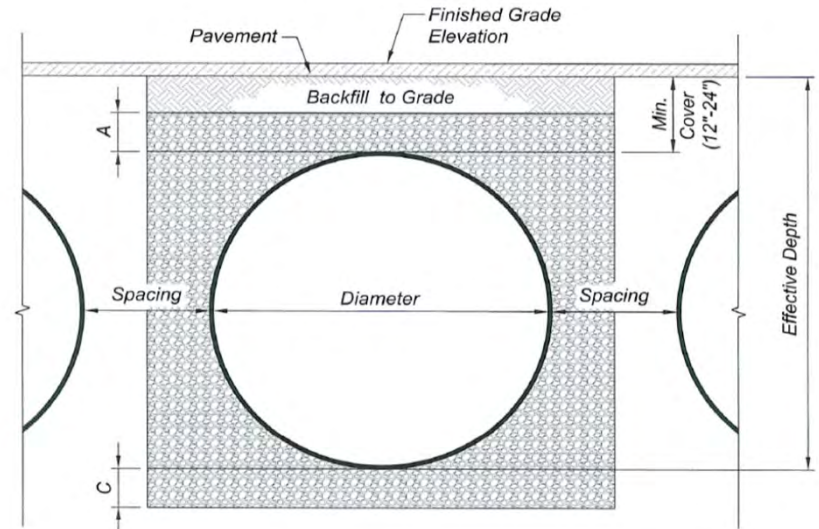
**Project Summary**

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA F)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in  
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**Corrugated Metal Pipe Calculator**

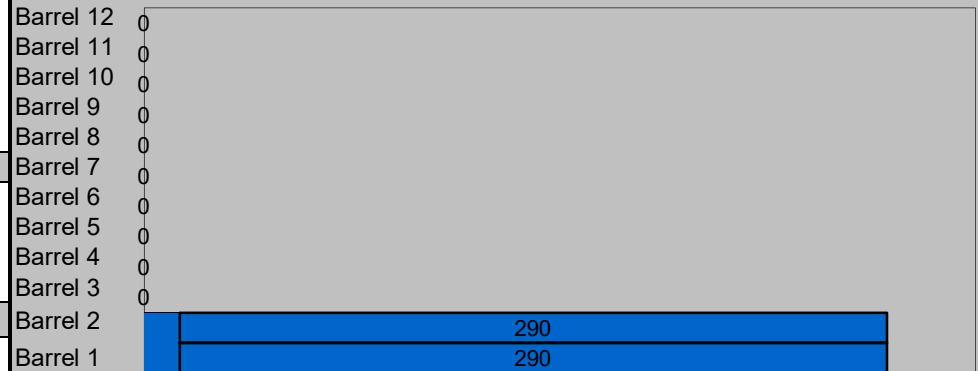
Storage Volume Required (cf):	40,596	50.27 ft <sup>2</sup> Pipe Area
Limiting Width (ft):	26.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	



**System Sizing**

Pipe Storage:	30,109 cf	
Porous Stone Storage:	10,636 cf	
Total Storage Provided:	40,745 cf	100.4% Of Required Storage
Number of Barrels:	2 barrels	
Length per Barrel:	290.0 ft	
Length Per Header:	19.0 ft	
Rectangular Footprint (W x L):	21. ft x 300. ft	

**System Layout**



**CONTECH Materials**

Total CMP Footage:	599 ft
Approximate Total Pieces:	27 pcs
Approximate Coupling Bands:	26 bands
Approximate Truckloads:	14 trucks

**Construction Quantities\*\***

Total Excavation:	2100 cy
Porous Stone Backfill For Storage:	985 cy stone
Backfill to Grade Excluding Stone:	0 cy fill

\*\*Construction quantities are approximate and should be verified upon final design

# **HCO<sub>3</sub><sup>-</sup> CALCULATIONS**

## Form 4.2-2 of HCOC Assessment

Does project have the potential to cause or contribute to an HCOC in a downstream channel:  Yes  No

Go to: <http://sbcounty.permitrack.com/WAP/>

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below (Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft <sup>3</sup> )	Time of Concentration (min)	Peak Runoff (cfs)
<b>Pre-developed</b>	<sup>1</sup> 531,965 <i>Form 4.2-3 Item 12</i>	<sup>2</sup> TBD <i>Form 4.2-4 Item 13</i>	<sup>3</sup> TBD <i>Form 4.2-5 Item 10</i>
<b>Post-developed</b>	<sup>4</sup> 1,017,027 <i>Form 4.2-3 Item 13</i>	<sup>5</sup> TBD <i>Form 4.2-4 Item 14</i>	<sup>6</sup> TBD <i>Form 4.2-5 Item 14</i>
<b>Difference</b>	<sup>7</sup> 485,062 <i>Item 4 – Item 1</i>	<sup>8</sup> TBD <i>Item 5 – Item 2</i>	<sup>9</sup> TBD <i>Item 6 – Item 3</i>
<b>Difference</b> (as % of pre-developed)	<sup>10</sup> 91% <i>Item 7 / Item 1</i>	<sup>11</sup> TBD <i>Item 8 / Item 2</i>	<sup>12</sup> TBD <i>Item 9 / Item 3</i>

To meet HCOC requirements, a mitigation volume must be achieved by using LID and/or hydromodification mitigation BMPs. The mitigation volume is approximately 434,211 cu-ft  $((0.95 * 1,017,027) - 531,965)$ . The total volume being retained is 687,210 cu-ft which is greater than the mitigation volume needed. As a result, the mitigation volume has been contained by the proposed BMPs. Since the mitigation volume has been met, it is physically impossible for the project to avoid increasing the time of concentration and reducing peak runoff by more than five percent of pre-development conditions (see Section 5.6.1 of the Technical Guidance Document for more information).

## Form 4.2-3 HCOC Assessment for Runoff Volume

Compute weighted curve number for pre and post developed conditions	Pre-developed DA <i>Add more columns if more than 4 DMA</i>						Post-developed DA <i>Add more columns if more than 4 DMA</i>					
	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F
<b><sup>1</sup> Land Cover type</b>	Row Crops (Poor)	Imper. Cover	Row Crops (Poor)	Imper. Cover	Row Crops (Poor)	Imper. Cover	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete
<b><sup>2</sup> Hydrologic Soil Group (HSG)</b>	A	A	B	B	C	C	A	A	B	B	C	C
<b><sup>3</sup> DMA Area, ft<sup>2</sup></b> <i>sum of areas of DMA should equal area of DA</i>	529,254	121,968	3,351,942	15,246	1,544,202	115,434	32,670	618,552	167,706	3,199,482	82,764	1,576,872
<b><sup>4</sup> Curve Number (CN)</b> <i>Use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP</i>	72	98	81	98	88	98	32	98	56	98	69	98
	<b><sup>5</sup> Pre-Developed area-weighted CN: 83</b>						<b><sup>6</sup> Post-Developed area-weighted CN: 96</b>					
	<b><sup>7</sup> Pre-developed soil storage capacity, S (in): 2.05</b> <i>S = (1000 / Item 5) - 10</i>						<b><sup>8</sup> Post-developed soil storage capacity, S (in): 0.42</b> <i>S = (1000 / Item 6) - 10</i>					
	<b><sup>9</sup> Initial abstraction, I<sub>a</sub> (in): 0.41</b> <i>I<sub>a</sub> = 0.2 * Item 7</i>						<b><sup>10</sup> Initial abstraction, I<sub>a</sub> (in): 0.08</b> <i>I<sub>a</sub> = 0.2 * Item 8</i>					
<b><sup>11</sup> Precipitation for 2 yr, 24 hr storm (in): 2.59</b> <i>Go to: <a href="http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html">http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html</a></i>												
<b><sup>12</sup> Pre-developed Volume (ft<sup>3</sup>): 531,965</b> <i>V<sub>pre</sub> = (1 / 12) * (Item sum of Item 3) * [(Item 11 - Item 9)^2 / ((Item 11 - Item 9 + Item 7))]</i>												
<b><sup>13</sup> Post-developed Volume (ft<sup>3</sup>): 1,017,027</b> <i>V<sub>pre</sub> = (1 / 12) * (Item sum of Item 3) * [(Item 11 - Item 10)^2 / ((Item 11 - Item 10 + Item 8))]</i>												
<b><sup>14</sup> Volume Reduction needed to meet HCOC Requirement, (ft<sup>3</sup>): 434,211</b> <i>V<sub>HCOC</sub> = (Item 13 * 0.95) - Item 12</i>												



DESIGN CAPTURE VOLUME (DCV) SUMMARY TABLE								
DRAINAGE AREAS (DA)	AREA (ACRES)	DCV (CF)	*DRY WELL			96" CMP		TOTAL VOLUME PROVIDED (CF)
			3-HOUR STORM DURATION VOLUME (CF)	VOLUME PROVIDED (CF)	# OF DRY WELLS	VOLUME PROVIDED (CF)	LINEAR FOOTAGE (LF)	
DA 1 DMA A	4.35	21,149	1,982	490	1	21,309	313	23,781
DA 1 DMA B	4.10	19,933	1,982	490	1	20,086	295	22,558
DA 1 DMA C	4.00	19,447	1,982	490	1	19,678	289	22,150
DA 1 DMA D	3.75	18,232	1,982	490	1	18,455	271	20,927
DA 1 DMA E	4.65	22,607	1,982	490	1	22,804	335	25,276
DA 2 DMA A	23.35	113,522	7,927	1,960	4	113,975	1,652	123,862
DA 2 DMA B	23.40	113,765	7,927	1,960	4	114,320	1,657	124,207
DA 2 DMA C	15.00	72,926	5,945	1,470	3	73,296	1,065	80,711
DA 2 DMA D	15.55	75,600	5,945	1,470	3	76,051	1,105	83,466
DA 2 DMA E	21.45	104,284	7,927	1,960	4	104,696	1,521	114,583
DA 2 DMA F	8.35	40,596	3,964	980	2	40,745	599	45,689
<b>TOTAL</b>	<b>127.95</b>	<b>622,060</b>	<b>49,545</b>	<b>12,250</b>	<b>25</b>	<b>625,415</b>	<b>9,102</b>	<b>687,210</b>

\*DRY WELL INFILTRATION RATES PENDING. THESE CALCULATIONS ASSUME THE SAME INFILTRATION RATE FROM PROJECT PDEV17-057.

**INFILTRATION  
FEASIBILITY (NEARBY SITE)**

*The watermark for drainage solutions.®*



REDA, LLC  
4450 MacArthur Blvd., Suite 100  
Newport Beach, CA 92660  
Attn: Jeff Johnston

Re: Ontario Ranch Logistics Center  
NEC of Merrill and Carpenter  
Ontario, CA 91762  
Job #: 1910-316  
Percolation Test Results for Drywell #1

Dear Mr. Johnston,

Pursuant to your request, we have performed a constant head percolation test on the Drainage System at the above referenced location.

The test on Drywell No. 1 commenced on 11/05/2019 at 12:08 PM and was completed at 1:53 PM the same day with a total volume flow of 19,578 GAL. The average percolation rate for the well over the last fifteen minutes of the test is 0.367 cubic feet per second.

If you have any questions or require additional information, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Kevin White', with a horizontal line extending to the right.

Kevin White  
VP of California Operations  
Torrent Resources (CA), Inc.

KCW/la

Torrent Resources (CA) Incorporated  
9950 Alder Avenue  
Bloomington California 92316

phone 661-947-9836

[www.TorrentResources.com](http://www.TorrentResources.com)

CA Lic. 886759 A, C-42

An Employee-Owned Company

**Percolation Test Results**

Project Name:	Ontario Ranch Logistics Center	Client:	REDA, LLC
Location:	NEC of Merrill and Carpenter	Date:	11/5/2019
City:	Ontario, CA 91762	Project Number:	1910-316
Well Number:	1	Supervisor:	DL

Time	Gallons Cumulative Reading	Actual Rate (CFS)	Water Level Below Rim (FT)
12:08 PM	5368192		24.20
12:13 PM	5369370	0.525	20.70
12:18 PM	5370440	0.477	19.80
12:23 PM	5371520	0.481	19.30
12:28 PM	5372575	0.470	19.10
12:33 PM	5373675	0.490	16.60
12:38 PM	5374740	0.475	14.00
12:43 PM	5375700	0.428	13.85
12:48 PM	5376875	0.524	11.35
12:53 PM	5377370	0.221	14.10
12:58 PM	5378250	0.392	14.50
1:03 PM	5379190	0.419	13.10
1:08 PM	5380120	0.414	12.40
1:13 PM	5381030	0.406	11.80
1:18 PM	5381905	0.390	11.50
1:23 PM	5382785	0.392	11.20
1:28 PM	5383640	0.381	11.20
1:33 PM	5384485	0.377	11.05
1:38 PM	5385298	0.362	11.20
1:43 PM	5386125	0.369	11.30
1:48 PM	5386950	0.368	11.10
1:53 PM	5387770	0.365	11.10

TOTAL GALLONS USED: 19,578

1st Hose Run:	2nd Hose Run:	Total Gallons:	19,578
City Meter #:	Used Job Meter:	Used Chandler Hydrant Meter:	
City Meter Start:	_____	City Meter End:	_____ 0

**APPENDIX H**  
**NOISE DATA**

## **APPENDIX H1**

### **TRAFFIC NOISE MODELING RESULTS**

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Existing  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	32,508	45	0	4.6%	12.3%	73.7	235	745	2,355	7,447
2	Edison Ave	between Ramona Ave and Central Ave	4	14	27,271	45	0	4.6%	12.3%	72.8	190	601	1,899	6,007
3	Edison Ave	between Central Ave and Mountain Ave	5	15	21,446	45	0	4.6%	12.3%	71.8	152	482	1,524	4,819
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	25,129	45	0	4.6%	12.3%	72.4	174	551	1,741	5,507
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	20,675	45	0	4.6%	12.3%	71.6	144	455	1,438	4,548
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	17,782	50	0	4.6%	12.3%	71.4	139	441	1,394	4,407
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	12,499	50	0	4.6%	12.3%	69.9	98	310	980	3,098
8	Edison Ave	between Grove Ave and Walker Ave	2	0	13,701	50	0	4.6%	12.3%	70.3	107	340	1,074	3,396
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	12,251	50	0	4.6%	12.3%	69.8	96	304	960	3,036
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	18,110	50	0	4.6%	12.3%	71.5	142	449	1,419	4,488
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	17,985	50	0	4.6%	12.3%	71.6	143	453	1,432	4,528
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	20,212	50	0	4.6%	12.3%	72.1	163	516	1,631	5,158
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	7,833	50	0	4.6%	12.3%	67.9	61	194	614	1,941
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4,454	50	0	4.6%	12.3%	65.4	35	110	349	1,104
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	12,659	50	0	4.6%	12.3%	70.0	99	314	992	3,137
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	7,545	45	0	4.6%	12.3%	67.1	51	161	510	1,612
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	3,579	45	0	4.6%	12.3%	63.8	-	76	242	765
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	11,206	50	0	4.6%	12.3%	63.8	-	76	242	765
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	12,133	50	0	4.6%	12.3%	69.8	95	301	951	3,007
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	12,081	50	0	4.6%	12.3%	69.8	96	304	961	3,038
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	13,217	50	0	4.6%	12.3%	70.2	105	332	1,051	3,324
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	11,885	50	0	4.6%	12.3%	69.7	93	295	931	2,946
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	32,913	45	0	4.6%	12.3%	63.8	-	-	242	765
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	31,777	45	0	4.6%	12.3%	74.3	268	847	2,679	8,472
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	28,828	45	0	4.6%	12.3%	73.5	222	701	2,216	7,008
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	29,467	45	0	4.6%	12.3%	73.2	209	660	2,087	6,599
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	31,494	55	0	4.6%	12.3%	74.7	298	942	2,978	9,418
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	31,251	55	0	4.6%	12.3%	74.7	296	935	2,955	9,345
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	32,600	55	0	4.6%	12.3%	74.7	298	944	2,985	9,438
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	21,360	55	0	4.6%	12.3%	72.8	193	609	1,927	6,094
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	3,657	45	0	4.6%	12.3%	63.8	-	76	242	765
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	2,508	45	0	4.6%	12.3%	62.3	-	54	169	536
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	25,965	45	0	4.6%	12.3%	63.8	-	76	242	765
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	20,649	45	0	4.6%	12.3%	71.6	143	454	1,434	4,536
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	13,831	50	0	4.6%	12.3%	70.4	108	343	1,084	3,428
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	9,090	50	0	4.6%	12.3%	68.5	71	225	712	2,253
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	8,672	50	0	4.6%	12.3%	68.3	68	215	680	2,149
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	7,980	50	0	4.6%	12.3%	68.0	63	198	625	1,978
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	7,967	50	0	4.6%	12.3%	68.0	62	197	624	1,975
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	27,284	50	0	4.6%	12.3%	63.8	-	76	242	765
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	27,585	50	0	4.6%	12.3%	73.7	235	745	2,355	7,447
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	24,458	55	0	4.6%	12.3%	73.8	240	760	2,403	7,600
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	25,058	55	0	4.6%	12.3%	73.7	235	743	2,351	7,434
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	24,863	55	0	4.6%	12.3%	73.7	235	743	2,351	7,435
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	26,427	55	0	4.6%	12.3%	74.0	252	797	2,521	7,973
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	25,110	55	0	4.6%	12.3%	73.8	240	758	2,396	7,575

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Opening Year  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	35594	45	0	4.6%	12.3%	74.1	258	815	2,578	8,154
2	Edison Ave	between Ramona Ave and Central Ave	4	14	30069	45	0	4.6%	12.3%	73.2	209	662	2,094	6,623
3	Edison Ave	between Central Ave and Mountain Ave	5	15	24267	45	0	4.6%	12.3%	72.4	172	545	1,724	5,453
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	28077	45	0	4.6%	12.3%	72.9	195	615	1,946	6,153
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	23518	45	0	4.6%	12.3%	72.1	164	517	1,636	5,173
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	20537	50	0	4.6%	12.3%	72.1	161	509	1,610	5,090
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	13541	50	0	4.6%	12.3%	70.3	106	336	1,061	3,356
8	Edison Ave	between Grove Ave and Walker Ave	2	0	17254	50	0	4.6%	12.3%	71.3	135	428	1,352	4,276
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	13278	50	0	4.6%	12.3%	70.2	104	329	1,041	3,291
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	22724	50	0	4.6%	12.3%	72.5	178	563	1,781	5,632
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	19225	50	0	4.6%	12.3%	71.8	153	484	1,530	4,840
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21689	50	0	4.6%	12.3%	72.4	175	553	1,750	5,535
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8463	50	0	4.6%	12.3%	68.2	66	210	663	2,097
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4726	50	0	4.6%	12.3%	65.7	37	117	370	1,171
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13606	50	0	4.6%	12.3%	70.3	107	337	1,066	3,372
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8241	45	0	4.6%	12.3%	67.5	56	176	557	1,761
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	5062	45	0	4.6%	12.3%	65.3	34	108	342	1,081
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	15993	50	0	4.6%	12.3%	71.0	125	396	1,253	3,964
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	17267	50	0	4.6%	12.3%	71.3	135	428	1,353	4,279
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	17850	50	0	4.6%	12.3%	71.5	142	449	1,420	4,489
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	19794	50	0	4.6%	12.3%	72.0	157	498	1,574	4,978
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	17643	50	0	4.6%	12.3%	71.4	138	437	1,383	4,373
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37092	45	0	4.6%	12.3%	74.8	300	947	2,996	9,473
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	37825	45	0	4.6%	12.3%	75.0	319	1,008	3,189	10,085
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	35369	45	0	4.6%	12.3%	74.3	272	860	2,719	8,598
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	36157	45	0	4.6%	12.3%	74.1	256	810	2,560	8,097
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	38238	55	0	4.6%	12.3%	75.6	362	1,143	3,616	11,435
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	38050	55	0	4.6%	12.3%	75.6	360	1,138	3,598	11,378
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	38452	55	0	4.6%	12.3%	75.5	352	1,113	3,520	11,132
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	26636	55	0	4.6%	12.3%	73.8	240	760	2,403	7,599
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4542	45	0	4.6%	12.3%	64.9	-	97	307	970
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	3322	45	0	4.6%	12.3%	63.5	-	71	224	710
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	28138	45	0	4.6%	12.3%	72.9	195	618	1,955	6,181
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	22726	45	0	4.6%	12.3%	72.0	158	499	1,579	4,992
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	15533	50	0	4.6%	12.3%	70.9	122	385	1,217	3,850
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	10733	50	0	4.6%	12.3%	69.2	84	266	841	2,660
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	10290	50	0	4.6%	12.3%	69.1	81	255	806	2,550
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	9621	50	0	4.6%	12.3%	68.8	75	238	754	2,384
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	11667	50	0	4.6%	12.3%	69.6	91	289	914	2,892
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	31490	50	0	4.6%	12.3%	74.4	276	872	2,759	8,724
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	31837	50	0	4.6%	12.3%	74.3	272	859	2,718	8,594
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	28878	55	0	4.6%	12.3%	74.5	284	897	2,838	8,974
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	30431	55	0	4.6%	12.3%	74.6	285	903	2,855	9,027
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	30225	55	0	4.6%	12.3%	74.6	286	904	2,858	9,038
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	31590	55	0	4.6%	12.3%	74.8	301	953	3,014	9,530
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	30123	55	0	4.6%	12.3%	74.6	287	909	2,874	9,088

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.



**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Opening Year + Project Phase 1  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	37060	45	0	4.6%	12.3%	74.3	268	849	2,685	8,490
2	Edison Ave	between Ramona Ave and Central Ave	4	14	31535	45	0	4.6%	12.3%	73.4	220	695	2,196	6,946
3	Edison Ave	between Central Ave and Mountain Ave	5	15	25849	45	0	4.6%	12.3%	72.6	184	581	1,837	5,808
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	29601	45	0	4.6%	12.3%	73.1	205	649	2,051	6,487
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	25100	45	0	4.6%	12.3%	72.4	175	552	1,746	5,521
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	22119	50	0	4.6%	12.3%	72.4	173	548	1,734	5,482
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	16361	50	0	4.6%	12.3%	71.1	128	405	1,282	4,055
8	Edison Ave	between Grove Ave and Walker Ave	2	0	20680	50	0	4.6%	12.3%	72.1	162	513	1,621	5,125
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	14896	50	0	4.6%	12.3%	70.7	117	369	1,167	3,692
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	25112	50	0	4.6%	12.3%	72.9	197	622	1,968	6,224
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	20829	50	0	4.6%	12.3%	72.2	166	524	1,658	5,244
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21805	50	0	4.6%	12.3%	72.5	176	556	1,760	5,564
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8741	50	0	4.6%	12.3%	68.4	69	217	685	2,166
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	5756	50	0	4.6%	12.3%	66.5	45	143	451	1,427
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13664	50	0	4.6%	12.3%	70.3	107	339	1,071	3,386
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8373	45	0	4.6%	12.3%	67.5	57	179	566	1,789
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	5885	45	0	4.6%	12.3%	66.0	40	126	398	1,257
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	17127	50	0	4.6%	12.3%	71.3	134	424	1,342	4,245
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	19604	50	0	4.6%	12.3%	71.9	154	486	1,536	4,859
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	19660	50	0	4.6%	12.3%	71.9	156	494	1,564	4,945
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	21604	50	0	4.6%	12.3%	72.4	172	543	1,718	5,433
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	19453	50	0	4.6%	12.3%	71.8	152	482	1,525	4,821
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37755	45	0	4.6%	12.3%	74.8	305	964	3,049	9,642
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	38873	45	0	4.6%	12.3%	75.2	328	1,036	3,277	10,364
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	36563	45	0	4.6%	12.3%	74.5	281	889	2,811	8,889
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	37335	45	0	4.6%	12.3%	74.2	264	836	2,644	8,360
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	40290	55	0	4.6%	12.3%	75.8	381	1,205	3,810	12,048
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	39228	55	0	4.6%	12.3%	75.7	371	1,173	3,710	11,731
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	40876	55	0	4.6%	12.3%	75.7	374	1,183	3,742	11,834
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	28706	55	0	4.6%	12.3%	74.1	259	819	2,590	8,190
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4600	45	0	4.6%	12.3%	64.9	-	98	311	983
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	3380	45	0	4.6%	12.3%	63.6	-	72	228	722
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	29158	45	0	4.6%	12.3%	73.1	203	641	2,026	6,405
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	24368	45	0	4.6%	12.3%	72.3	169	535	1,693	5,353
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	17323	50	0	4.6%	12.3%	71.3	136	429	1,358	4,293
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	14551	50	0	4.6%	12.3%	70.6	114	361	1,140	3,606
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	14036	50	0	4.6%	12.3%	70.4	110	348	1,100	3,479
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	13661	50	0	4.6%	12.3%	70.3	107	339	1,071	3,386
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	14063	50	0	4.6%	12.3%	70.4	110	349	1,102	3,485
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	32484	50	0	4.6%	12.3%	74.5	285	900	2,846	9,000
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	33025	50	0	4.6%	12.3%	74.5	282	892	2,819	8,915
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	29874	55	0	4.6%	12.3%	74.7	294	928	2,936	9,283
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	31845	55	0	4.6%	12.3%	74.8	299	945	2,987	9,447
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	31639	55	0	4.6%	12.3%	74.8	299	946	2,992	9,461
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	33400	55	0	4.6%	12.3%	75.0	319	1,008	3,186	10,076
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	31537	55	0	4.6%	12.3%	74.8	301	951	3,009	9,514

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Opening Year + Project Phase 2  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	36,010	45	0	4.6%	12.3%	74.2	261	825	2,609	8,249
2	Edison Ave	between Ramona Ave and Central Ave	4	14	30,485	45	0	4.6%	12.3%	73.3	212	671	2,123	6,714
3	Edison Ave	between Central Ave and Mountain Ave	5	15	24,767	45	0	4.6%	12.3%	72.5	176	557	1,760	5,565
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	28,535	45	0	4.6%	12.3%	73.0	198	625	1,977	6,253
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	24,018	45	0	4.6%	12.3%	72.2	167	528	1,671	5,283
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	21,037	50	0	4.6%	12.3%	72.2	165	521	1,649	5,214
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	14,419	50	0	4.6%	12.3%	70.5	113	357	1,130	3,574
8	Edison Ave	between Grove Ave and Walker Ave	2	0	18,548	50	0	4.6%	12.3%	71.6	145	460	1,454	4,597
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	13,278	50	0	4.6%	12.3%	70.2	104	329	1,041	3,291
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	23,806	50	0	4.6%	12.3%	72.7	187	590	1,866	5,900
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	19,267	50	0	4.6%	12.3%	71.9	153	485	1,534	4,850
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21,773	50	0	4.6%	12.3%	72.4	176	556	1,757	5,556
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8,505	50	0	4.6%	12.3%	68.2	67	211	667	2,108
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4,726	50	0	4.6%	12.3%	65.7	37	117	370	1,171
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13,648	50	0	4.6%	12.3%	70.3	107	338	1,070	3,383
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8,283	45	0	4.6%	12.3%	67.5	56	177	560	1,770
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	6,358	45	0	4.6%	12.3%	66.3	43	136	430	1,358
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	16,900	50	0	4.6%	12.3%	71.2	132	419	1,325	4,188
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	18,744	50	0	4.6%	12.3%	71.7	147	465	1,469	4,645
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	19,160	50	0	4.6%	12.3%	71.8	152	482	1,524	4,819
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	21,104	50	0	4.6%	12.3%	72.2	168	531	1,678	5,308
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	18,953	50	0	4.6%	12.3%	71.7	149	470	1,485	4,697
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37,415	45	0	4.6%	12.3%	74.8	302	956	3,022	9,555
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	38,399	45	0	4.6%	12.3%	75.1	324	1,024	3,237	10,238
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	36,181	45	0	4.6%	12.3%	74.4	278	880	2,781	8,796
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	37,011	45	0	4.6%	12.3%	74.2	262	829	2,621	8,288
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	38,716	55	0	4.6%	12.3%	75.6	366	1,158	3,661	11,578
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	38,906	55	0	4.6%	12.3%	75.7	368	1,163	3,679	11,634
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	39,034	55	0	4.6%	12.3%	75.5	357	1,130	3,574	11,301
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	27,178	55	0	4.6%	12.3%	73.9	245	775	2,452	7,754
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4,584	45	0	4.6%	12.3%	64.9	-	98	310	979
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	3,364	45	0	4.6%	12.3%	63.6	-	72	227	719
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	28,367	45	0	4.6%	12.3%	72.9	197	623	1,971	6,232
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	23,060	45	0	4.6%	12.3%	72.0	160	507	1,602	5,066
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	15,867	50	0	4.6%	12.3%	70.9	124	393	1,244	3,932
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	11,151	50	0	4.6%	12.3%	69.4	87	276	874	2,764
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	10,708	50	0	4.6%	12.3%	69.2	84	265	839	2,654
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	10,039	50	0	4.6%	12.3%	69.0	79	249	787	2,488
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	12,961	50	0	4.6%	12.3%	70.1	102	321	1,016	3,212
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	32,158	50	0	4.6%	12.3%	74.5	282	891	2,817	8,910
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	32,379	50	0	4.6%	12.3%	74.4	276	874	2,764	8,741
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	29,544	55	0	4.6%	12.3%	74.6	290	918	2,903	9,181
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	30,929	55	0	4.6%	12.3%	74.6	290	918	2,901	9,175
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	30,723	55	0	4.6%	12.3%	74.6	291	919	2,905	9,187
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	32,362	55	0	4.6%	12.3%	74.9	309	976	3,087	9,763
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	30,621	55	0	4.6%	12.3%	74.7	292	924	2,921	9,238

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Opening Year + Project Phase 1 and Phase 2  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	37,476	45	0	4.6%	12.3%	74.3	271	858	2,715	8,585
2	Edison Ave	between Ramona Ave and Central Ave	4	14	31,951	45	0	4.6%	12.3%	73.5	223	704	2,225	7,037
3	Edison Ave	between Central Ave and Mountain Ave	5	15	26,349	45	0	4.6%	12.3%	72.7	187	592	1,872	5,921
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	30,059	45	0	4.6%	12.3%	73.2	208	659	2,083	6,587
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	25,600	45	0	4.6%	12.3%	72.5	178	563	1,781	5,631
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	22,619	50	0	4.6%	12.3%	72.5	177	561	1,773	5,606
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	17,239	50	0	4.6%	12.3%	71.3	135	427	1,351	4,272
8	Edison Ave	between Grove Ave and Walker Ave	2	0	21,974	50	0	4.6%	12.3%	72.4	172	545	1,722	5,446
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	14,896	50	0	4.6%	12.3%	70.7	117	369	1,167	3,692
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	26,194	50	0	4.6%	12.3%	73.1	205	649	2,053	6,492
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	20,871	50	0	4.6%	12.3%	72.2	166	525	1,661	5,254
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21,889	50	0	4.6%	12.3%	72.5	177	559	1,766	5,586
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8,783	50	0	4.6%	12.3%	68.4	69	218	688	2,177
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	5,756	50	0	4.6%	12.3%	66.5	45	143	451	1,427
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13,706	50	0	4.6%	12.3%	70.3	107	340	1,074	3,397
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8,415	45	0	4.6%	12.3%	67.5	57	180	569	1,798
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	7,181	45	0	4.6%	12.3%	66.9	49	153	485	1,534
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	18,034	50	0	4.6%	12.3%	71.5	141	447	1,413	4,470
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	21,081	50	0	4.6%	12.3%	72.2	165	522	1,652	5,225
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	20,970	50	0	4.6%	12.3%	72.2	167	527	1,668	5,274
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	22,914	50	0	4.6%	12.3%	72.6	182	576	1,822	5,763
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	20,763	50	0	4.6%	12.3%	72.1	163	515	1,627	5,146
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	38,078	45	0	4.6%	12.3%	74.9	308	972	3,075	9,724
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	39,447	45	0	4.6%	12.3%	75.2	333	1,052	3,326	10,517
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	37,375	45	0	4.6%	12.3%	74.6	287	909	2,873	9,086
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	38,189	45	0	4.6%	12.3%	74.3	270	855	2,704	8,552
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	40,768	55	0	4.6%	12.3%	75.9	386	1,219	3,855	12,191
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	40,084	55	0	4.6%	12.3%	75.8	379	1,199	3,790	11,987
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	41,458	55	0	4.6%	12.3%	75.8	380	1,200	3,796	12,003
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	29,248	55	0	4.6%	12.3%	74.2	264	834	2,639	8,344
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4,642	45	0	4.6%	12.3%	65.0	-	99	314	992
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	3,422	45	0	4.6%	12.3%	63.6	-	73	231	731
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	29,387	45	0	4.6%	12.3%	73.1	204	646	2,041	6,456
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	24,702	45	0	4.6%	12.3%	72.3	172	543	1,716	5,427
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	17,657	50	0	4.6%	12.3%	71.4	138	438	1,384	4,376
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	14,969	50	0	4.6%	12.3%	70.7	117	371	1,173	3,710
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	14,454	50	0	4.6%	12.3%	70.5	113	358	1,133	3,582
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	14,079	50	0	4.6%	12.3%	70.4	110	349	1,103	3,489
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	15,357	50	0	4.6%	12.3%	70.8	120	381	1,204	3,806
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	33,152	50	0	4.6%	12.3%	74.6	290	918	2,905	9,185
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	33,567	50	0	4.6%	12.3%	74.6	287	906	2,865	9,061
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	30,540	55	0	4.6%	12.3%	74.8	300	949	3,001	9,490
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	32,343	55	0	4.6%	12.3%	74.8	303	959	3,034	9,595
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	32,137	55	0	4.6%	12.3%	74.8	304	961	3,039	9,610
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	34,172	55	0	4.6%	12.3%	75.1	326	1,031	3,260	10,309
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	32,035	55	0	4.6%	12.3%	74.9	306	966	3,056	9,665

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Horizon Year  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	49,354	45	0	4.6%	12.3%	75.5	358	1,131	3,575	11,306
2	Edison Ave	between Ramona Ave and Central Ave	4	14	48,026	45	0	4.6%	12.3%	75.2	335	1,058	3,345	10,578
3	Edison Ave	between Central Ave and Mountain Ave	5	15	42,952	45	0	4.6%	12.3%	74.8	305	965	3,052	9,652
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	46,728	45	0	4.6%	12.3%	75.1	324	1,024	3,238	10,240
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	53,494	45	0	4.6%	12.3%	75.7	372	1,177	3,721	11,767
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	49,497	50	0	4.6%	12.3%	75.9	388	1,227	3,879	12,267
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	55,604	50	0	4.6%	12.3%	76.4	436	1,378	4,358	13,781
8	Edison Ave	between Grove Ave and Walker Ave	2	0	57,324	50	0	4.6%	12.3%	76.5	449	1,421	4,493	14,207
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	48,849	50	0	4.6%	12.3%	75.8	383	1,211	3,828	12,107
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	47,700	50	0	4.6%	12.3%	75.7	374	1,182	3,738	11,822
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	24,660	50	0	4.6%	12.3%	72.9	196	621	1,963	6,208
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	25,634	50	0	4.6%	12.3%	73.2	207	654	2,069	6,541
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	10,428	50	0	4.6%	12.3%	69.1	82	258	817	2,584
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	9,608	50	0	4.6%	12.3%	68.8	75	238	753	2,381
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	18,991	50	0	4.6%	12.3%	71.7	149	471	1,488	4,707
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	9,697	45	0	4.6%	12.3%	68.2	66	207	655	2,072
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	10,278	45	0	4.6%	12.3%	68.4	69	220	694	2,196
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	23,937	50	0	4.6%	12.3%	72.7	188	593	1,876	5,933
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	25,530	50	0	4.6%	12.3%	73.0	200	633	2,001	6,327
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	27,221	50	0	4.6%	12.3%	73.4	216	685	2,165	6,846
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	28,557	50	0	4.6%	12.3%	73.6	227	718	2,271	7,182
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	25,876	50	0	4.6%	12.3%	73.1	203	641	2,028	6,413
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	51,413	45	0	4.6%	12.3%	76.2	415	1,313	4,152	13,130
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	54,125	45	0	4.6%	12.3%	76.6	456	1,443	4,563	14,431
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	50,328	45	0	4.6%	12.3%	75.9	387	1,224	3,869	12,235
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	50,228	45	0	4.6%	12.3%	75.5	356	1,125	3,557	11,248
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	54,305	55	0	4.6%	12.3%	77.1	514	1,624	5,135	16,239
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	52,903	55	0	4.6%	12.3%	77.0	500	1,582	5,003	15,820
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	52,683	55	0	4.6%	12.3%	76.8	482	1,525	4,823	15,252
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	40,249	55	0	4.6%	12.3%	75.6	363	1,148	3,631	11,483
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4,878	45	0	4.6%	12.3%	65.2	33	104	330	1,042
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	4,636	45	0	4.6%	12.3%	65.0	-	99	313	990
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	45,317	45	0	4.6%	12.3%	75.0	315	996	3,148	9,955
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	35,012	45	0	4.6%	12.3%	73.9	243	769	2,432	7,691
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	25,255	50	0	4.6%	12.3%	73.0	198	626	1,979	6,259
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	18,495	50	0	4.6%	12.3%	71.6	145	458	1,450	4,584
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	17,170	50	0	4.6%	12.3%	71.3	135	426	1,346	4,255
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	22,105	50	0	4.6%	12.3%	72.4	173	548	1,732	5,478
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	16,193	50	0	4.6%	12.3%	71.0	127	401	1,269	4,013
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	40,797	50	0	4.6%	12.3%	75.5	357	1,130	3,574	11,303
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	41,146	50	0	4.6%	12.3%	75.5	351	1,111	3,512	11,107
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	37,780	55	0	4.6%	12.3%	75.7	371	1,174	3,713	11,740
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	41,785	55	0	4.6%	12.3%	75.9	392	1,240	3,920	12,396
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	41,536	55	0	4.6%	12.3%	75.9	393	1,242	3,928	12,421
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	42,155	55	0	4.6%	12.3%	76.0	402	1,272	4,022	12,718
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	41,536	55	0	4.6%	12.3%	76.0	396	1,253	3,963	12,531

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels**

**Project Name:** South Ontario Logistics Center  
**Project Number:** 195242001  
**Scenario:** Horizon Year + Project Phase 1 and Phase 2  
**Ldn/CNEL:** CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	50,354	45	0	4.6%	12.3%	75.6	365	1,153	3,648	11,535
2	Edison Ave	between Ramona Ave and Central Ave	4	14	49,126	45	0	4.6%	12.3%	75.3	342	1,082	3,422	10,820
3	Edison Ave	between Central Ave and Mountain Ave	5	15	44,152	45	0	4.6%	12.3%	75.0	314	992	3,137	9,921
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	47,828	45	0	4.6%	12.3%	75.2	331	1,048	3,314	10,481
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	55,594	45	0	4.6%	12.3%	75.9	387	1,223	3,867	12,229
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	51,599	50	0	4.6%	12.3%	76.1	404	1,279	4,044	12,788
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	57,706	50	0	4.6%	12.3%	76.6	452	1,430	4,523	14,302
8	Edison Ave	between Grove Ave and Walker Ave	2	0	59,426	50	0	4.6%	12.3%	76.7	466	1,473	4,657	14,728
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	51,451	50	0	4.6%	12.3%	76.1	403	1,275	4,032	12,752
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	48,801	50	0	4.6%	12.3%	75.8	382	1,209	3,825	12,095
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	24,660	50	0	4.6%	12.3%	72.9	196	621	1,963	6,208
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	25,834	50	0	4.6%	12.3%	73.2	208	659	2,085	6,592
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	10,528	50	0	4.6%	12.3%	69.2	83	261	825	2,609
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	9,608	50	0	4.6%	12.3%	68.8	75	238	753	2,381
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	19,091	50	0	4.6%	12.3%	71.7	150	473	1,496	4,731
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	9,797	45	0	4.6%	12.3%	68.2	66	209	662	2,093
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	13,382	45	0	4.6%	12.3%	69.6	90	286	904	2,859
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	26,541	50	0	4.6%	12.3%	73.2	208	658	2,080	6,578
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	27,284	50	0	4.6%	12.3%	73.3	214	676	2,138	6,762
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	29,641	50	0	4.6%	12.3%	73.7	236	745	2,357	7,455
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	30,977	50	0	4.6%	12.3%	73.9	246	779	2,464	7,791
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	28,296	50	0	4.6%	12.3%	73.5	222	701	2,218	7,013
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	52,745	45	0	4.6%	12.3%	76.3	426	1,347	4,260	13,470
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	55,357	45	0	4.6%	12.3%	76.7	467	1,476	4,667	14,759
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	52,060	45	0	4.6%	12.3%	76.0	400	1,266	4,002	12,656
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	52,060	45	0	4.6%	12.3%	75.7	369	1,166	3,687	11,658
29	Euclid Ave	between Schaefer Ave and Edison Ave	4	25	55,237	55	0	4.6%	12.3%	77.2	522	1,652	5,223	16,518
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	54,735	55	0	4.6%	12.3%	77.1	518	1,637	5,176	16,368
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	540,701	55	0	4.6%	12.3%	86.9	4,950	15,654	49,502	156,538
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	41,537	55	0	4.6%	12.3%	75.7	375	1,185	3,747	11,850
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	4,978	45	0	4.6%	12.3%	65.3	34	106	336	1,063
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	4,736	45	0	4.6%	12.3%	65.1	-	101	320	1,012
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	46,017	45	0	4.6%	12.3%	75.0	320	1,011	3,197	10,109
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	36,112	45	0	4.6%	12.3%	74.0	251	793	2,509	7,933
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	26,355	50	0	4.6%	12.3%	73.2	207	653	2,066	6,532
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	19,595	50	0	4.6%	12.3%	71.9	154	486	1,536	4,856
39	Grove Ave	between Schaefer Ave and Edison Ave	2	0	18,270	50	0	4.6%	12.3%	71.6	143	453	1,432	4,528
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	25,183	50	0	4.6%	12.3%	73.0	197	624	1,974	6,241
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	19,396	50	0	4.6%	12.3%	71.8	152	481	1,520	4,807
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	41,752	50	0	4.6%	12.3%	75.6	366	1,157	3,658	11,568
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	42,134	50	0	4.6%	12.3%	75.6	360	1,137	3,597	11,374
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	38,968	55	0	4.6%	12.3%	75.8	383	1,211	3,829	12,109
45	Archibald Ave	between Schaefer Ave and Edison Ave	4	20	42,861	55	0	4.6%	12.3%	76.0	402	1,271	4,021	12,715
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	42,612	55	0	4.6%	12.3%	76.1	403	1,274	4,030	12,743
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	43,199	55	0	4.6%	12.3%	76.2	412	1,303	4,121	13,033
48	Archibald Ave	between Merrill Ave and Limonite Ave	4	30	42,612	55	0	4.6%	12.3%	76.1	407	1,286	4,065	12,856

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.  
 "-" = contour is located within the roadway right-of-way.

**APPENDIX I**  
**TRANSPORATION REPORTS**

**APPENDIX I1**  
**TRAFFIC ANALYSIS**



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# South Ontario Logistics Center Specific Plan

TRAFFIC ANALYSIS  
CITY OF ONTARIO

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AUGUST 17, 2021







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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
ADT	Average Daily Traffic
CAMUTCD	California Manual on Uniform Traffic Control Devices
Caltrans	California Department of Transportation
CCI	Construction Cost Index
CMP	Congestion Management Program
DIF	Development Impact Fee
E+P	Existing Plus Project
HCM	Highway Capacity Manual
ITE	Institute of Transportation Engineers
LOS	Level of Service
NCHRP	National Cooperative Highway Research Program
PA	Planning Area
PAs	Planning Areas
PCE	Passenger Car Equivalents
PHF	Peak Hour Factor
Project	South Ontario Logistics Center Specific Plan
RivTAM	Riverside Transportation Analysis Model
RTA	Riverside Transport Authority
RTP	Regional Transportation Plan
SBCTA	San Bernardino County Transportation Authority
SBTAM	San Bernardino Transportation Analysis Model
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SHS	State Highway System
SR	State Route
TA	Traffic Analysis
TUMF	Transportation Uniform Mitigation Fee
v/c	Volume to Capacity
vphgpl	Vehicles per Hour Green per Lane
WRCOG	Western Riverside Council of Governments

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# 1 SUMMARY OF FINDINGS

This report presents the results of the traffic analysis (TA) for the proposed South Ontario Logistics Center Specific Plan (“Project”), which is located north of Merrill Avenue between Campus Avenue and Grove Avenue in the City of Ontario, as shown on Exhibit 1-1.

The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with General Plan level of service goals and policies. This traffic study has been prepared in accordance with the San Bernardino County Congestion Management Program (CMP) Guidelines for CMP Traffic Impact Analysis Reports (Appendix B, 2016 Update) and consultation with City staff during the traffic study scoping process. (1) (2) The City approved Project Traffic Study Scoping agreement is provided in Appendix 1.1 of this TA.

## 1.1 PROJECT OVERVIEW

Exhibit 1-1 illustrates the preliminary Project land use plan and proposed phasing. The Project anticipates development over two phases and is expected to be fully built and operational by 2024. Phase 1 of the proposed Project is anticipated to be developed by Year 2024 and includes the development of Planning Areas (PAs) 1 and 2. Phase 2 of the proposed Project is also anticipated to be developed by Year 2024 and includes the development of PAs 3, 4, and 5. Phase 1 and Phase 2 have been evaluated separately in order to identify the improvement needs for each phase of the development.

Phase 1 (PAs 1 and 2) of the proposed Project includes the development for the following uses:

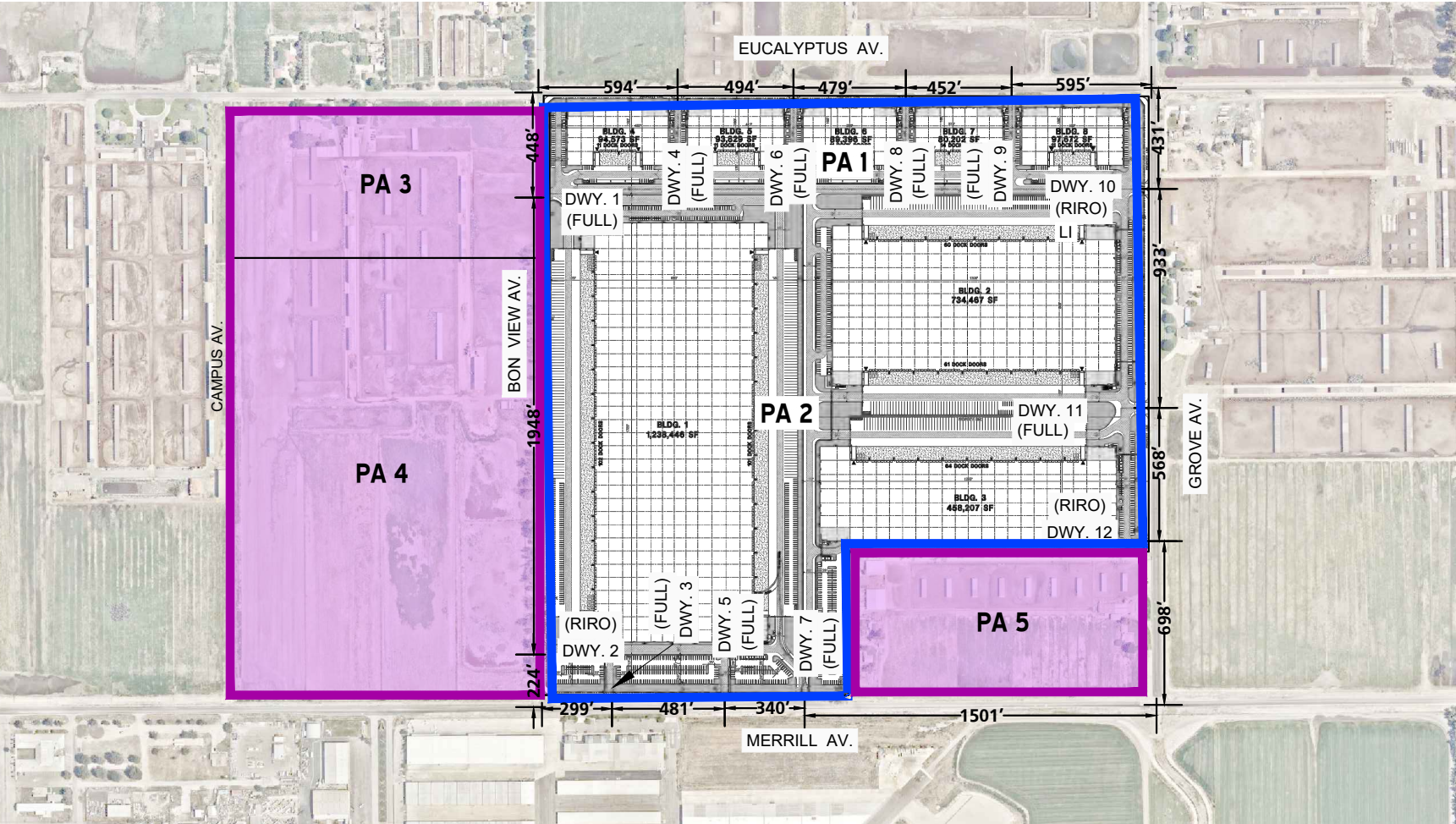
- Industrial: 1,671,574 square feet of high-cube fulfillment center warehouse use, 334,315 square feet of high-cube cold storage warehouse, and 565,763 square feet of general warehousing use
- Business Park: 601,128 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under Institute Transportation Engineer’s Land Use Code 130).

For purposes of this analysis, the following mix of land uses are assumed for Phase 2 (PAs 3, 4, and 5), which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 1,147,708 square feet of high-cube fulfillment center warehouse use, 229,542 square feet of high-cube cold storage warehouse, and 388,455 square feet of general warehousing use
- Business Park: 474,107 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For the purposes of the operations analysis, Project buildout includes both Phase 1 and Phase 2.

EXHIBIT 1-1: PRELIMINARY SITE PLAN



LEGEND:

- RIRO = RIGHT-IN/RIGHT-OUT ONLY ACCESS
- LI = LEFT IN
- FULL = FULL ACCESS
- █ = PHASE 1 (2022)
- █ = PHASE 2 (2024)



In an effort to conduct a conservative analysis, high-cube fulfillment center warehouse use and high-cube cold storage warehouse use were selected to capture the range of allowable uses within the Industrial areas of the Specific Plan. Similarly, the industrial park rate was selected to capture the range of allowable uses within the Business Park areas of the Specific Plan. From a trip generation perspective, these land use assumptions are conservative in that trip generation would likely be overstated as opposed to understated. Lastly, since the time this Project has been scoped with the lead agency and following the commencement of the operations analysis contained within this TA, the site plan square footages have been modified. The latest site plan is reflected in Exhibit 1-1, however the old site plan/square footage assumptions, which are more conservative, have been utilized for the purposes of the analysis.

Trips generated by the Project's proposed land uses have been estimated based on trip generation rates collected by the ITE Trip Generation Manual, 10<sup>th</sup> Edition, 2017 and the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019). (3) (4) The proposed Project is anticipated to generate a total of 12,446 actual trip-ends per day, 991 AM peak hour trips and 1,136 PM peak hour trips (actual vehicles). The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

## 1.2 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2021)
- Existing plus Project (E+P), with analysis broken down for:
  - Phase 1
  - Phase 1 + Phase 2 (Project Buildout)
- Opening Year Cumulative (2024) Without Project
- Opening Year Cumulative (2024) With Project (Phase 1)
- Opening Year Cumulative (2024) With Project (Phase 1 + Phase 2)
- Horizon Year (2040) Without Project
- Horizon Year (2040) With Project (Project Buildout)

### 1.2.1 EXISTING (2021) CONDITIONS

Information for Existing (2021) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. An ambient growth rate of 2% per year has been utilized for the 2019 traffic counts to reflect 2021 traffic conditions. See Section 3.7 *Existing Traffic Counts* for a detailed discussion on the methodology.

### **1.2.2 EXISTING PLUS PROJECT CONDITIONS**

The Existing plus Project (E+P) analysis determines traffic deficiencies that would occur on the existing roadway system with the addition of Project traffic. E+P traffic conditions have been evaluated for each development phase in order to determine any potential off-site improvements, by phase.

### **1.2.3 OPENING YEAR CUMULATIVE (2024) CONDITIONS**

The Opening Year Cumulative conditions analysis determines the potential near-term cumulative circulation system deficiencies. To account for background traffic growth, traffic associated with other known cumulative development projects in conjunction with an ambient growth factor from Existing conditions of 2% per year (compounded annually) are included for Opening Year Cumulative (2024) traffic conditions. Opening Year Cumulative traffic conditions have been evaluated for each phase of the proposed Project. This comprehensive list was compiled from information provided by the City of Ontario and other near-by agencies.

### **1.2.4 HORIZON YEAR (2040) CONDITIONS**

Traffic projections for Horizon Year (2040) with Project conditions were derived from the San Bernardino Transportation Analysis Model (SBTAM) modified to represent buildout of the City of Ontario. Horizon Year traffic conditions evaluates only the Project Buildout (Phase 1 + Phase 2). The Horizon Year (2040) conditions analysis will be utilized to determine if improvements funded through regional transportation mitigation fee programs, such as the City's Development Impact Fee (DIF) program, or other approved funding mechanisms can accommodate the long-range cumulative traffic at the target level of service (LOS) identified by the City of Ontario (lead agency). It should be noted that the City of Ontario has updated their DIF program to also include appropriate contributions towards regionally significant improvements that have been identified via the San Bernardino County CMP regional fee program study. If the planned and funded improvements can provide the target LOS, then the Project's payment into established fee programs will be considered as an improvement to address deficiencies. Other improvements needed beyond the "funded" improvements (such as localized improvements to non-DIF facilities) are identified as such.

### 1.3 STUDY AREA

To ensure that this TA satisfies the City of Ontario’s traffic study requirements, Urban Crossroads, Inc. prepared a project traffic study scoping package for review by City staff prior to the preparation of this report. The Agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology.

#### 1.3.1 INTERSECTIONS

The following 75 study area intersections shown on Exhibit 1-2 and listed on Table 1-1 were selected for this TIA based on consultation with City of Ontario staff. The “50 peak hour trip” criterion utilized by the City of Ontario is consistent with the methodology employed by the County of San Bernardino, and generally represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. Although each intersection may have unique operating characteristics, this traffic engineering rule of thumb is a widely utilized tool for estimating a potential area of influence (i.e., study area). The “50 peak hour trip” criterion is also utilized by the City of Eastvale. Other analysis intersections, within the adjacent cities were not selected for evaluation as the Project is anticipated to contribute less than 50 peak hour trips.

**TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS**

ID	Intersection Location	Jurisdiction	SBCTA CMP?
1	SR-71 SB Ramps & Grand Av.	Chino Hills, Caltrans	No
2	SR-71 SB Ramps & Butterfield Ranch Rd.	Chino Hills, Caltrans	No
3	SR-71 NB Ramps & Edison Av.	Chino, Caltrans	No
4	SR-71 NB Ramps & Euclid Av. (SR-83)	Chino, Caltrans	No
5	Pipeline Av. & Edison Av.	Chino	No
6	Ramona Av. & Edison Av.	Chino	No
7	Central Av. & Edison Av.	Chino	No
8	Mountain Av. & Edison Av.	Chino	No
9	San Antonio Av. & Edison Av.	Chino	No
10	Euclid Av. (SR-83) & SR-60 WB Ramps	Ontario, Caltrans	Yes
11	Euclid Av. (SR-83) & SR-60 EB Ramps	Ontario, Caltrans	Yes
12	Euclid Av. (SR-83) & Walnut Av.	Ontario, Caltrans	Yes
13	Euclid Av. (SR-83) & Riverside Dr.	Chino, Ontario, Caltrans	Yes
14	Euclid Av. (SR-83) & Chino Av.	Chino, Ontario, Caltrans	No
15	Euclid Av. (SR-83) & Schaefer Av.	Chino, Ontario, Caltrans	No
16	Euclid Av. (SR-83) & Edison Av.	Chino, Ontario, Caltrans	Yes
17	Euclid Av. (SR-83) & Eucalyptus Av.	Chino, Ontario, Caltrans	No
18	Euclid Av. (SR-83) & Merrill Av.	Chino, Ontario, Caltrans	No
19	Euclid Av. (SR-83) & Kimball Av.	Chino, Caltrans	No
20	Euclid Av. (SR-83) & Bickmore Av.	Chino, Caltrans	No
21	Euclid Av. (SR-83) & Pine Av.	Chino, Caltrans	No

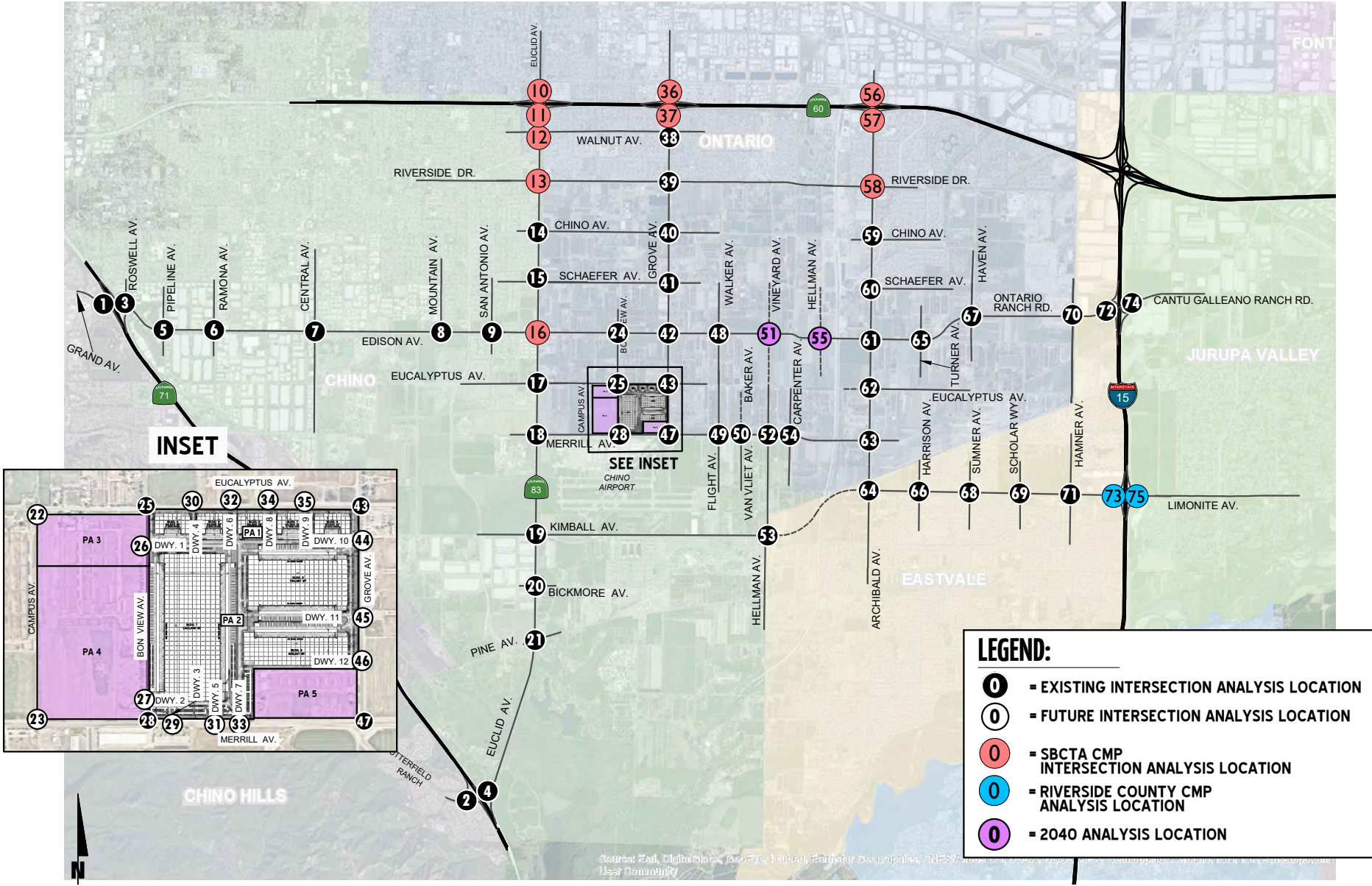


ID	Intersection Location	Jurisdiction	SBCTA CMP?
22	Campus Av. & Eucalyptus Av.	Chino, Caltrans	No
23	Campus Av. & Merrill Av.	Chino, Caltrans	No
24	Bon View Av. & Edison Av.	Ontario	No
25	Bon View Av. & Eucalyptus Av.	Ontario	No
26	Bon View Av. & Driveway 1 – Future Intersection	Ontario	No
27	Bon View Av. & Driveway 2 – Future Intersection	Ontario	No
28	Bon View Av. & Merrill Av.	Chino, Ontario	No
29	Driveway 3 & Merrill Av. – Future Intersection	Ontario	No
30	Driveway 4 & Eucalyptus Av. – Future Intersection	Ontario	No
31	Driveway 5 & Merrill Av. – Future Intersection	Ontario	No
32	Driveway 6 & Eucalyptus Av. – Future Intersection	Ontario	No
33	Driveway 7 & Merrill Av. – Future Intersection	Ontario	No
34	Driveway 8 & Eucalyptus Av. – Future Intersection	Ontario	No
35	Driveway 9 & Eucalyptus Av. – Future Intersection	Ontario	No
36	Grove Av. & SR-60 WB Ramps	Ontario, Caltrans	Yes
37	Grove Av. & SR-60 EB Ramps	Ontario, Caltrans	Yes
38	Grove Av. & Walnut Av.	Ontario	No
39	Grove Av. & Riverside Dr.	Ontario	No
40	Grove Av. & Chino Av.	Ontario	No
41	Grove Av. & Schaefer Av.	Ontario	No
42	Grove Av. & Edison Av.	Ontario	No
43	Grove Av. & Eucalyptus Av.	Ontario	No
44	Grove Av. & Driveway 10 – Future Intersection	Ontario	No
45	Grove Av. & Driveway 11 – Future Intersection	Ontario	No
46	Grove Av. & Driveway 12 – Future Intersection	Ontario	No
47	Grove Av. & Merrill Av.	Chino, Ontario	No
48	Walker Av. & Edison Av.	Ontario	No
49	Walker Av./Flight Av. & Merrill Av.	Chino, Ontario	No
50	Van Vliet Av./Baker Av. & Merrill Av.	Ontario	No
51	Vineyard Av. & Edison Av.	Ontario	No
52	Vineyard Av./Hellman Av. & Merrill Av.	Chino, Ontario	No
53	Hellman Av. & Kimball Av.	Chino, Eastvale	No
54	Carpenter Av. & Merrill Av.	Chino, Ontario	No
55	Hellman Av. & Edison Av.	Ontario	No
56	Archibald Av. & SR-60 WB Ramps	Ontario, Caltrans	Yes
57	Archibald Av. & SR-60 EB Ramps	Ontario, Caltrans	Yes
58	Archibald Av. & Riverside Dr.	Ontario	Yes
59	Archibald Av. & Chino Av.	Ontario	No
60	Archibald Av. & Schaefer Av.	Ontario	No

ID	Intersection Location	Jurisdiction	SBCTA CMP?
61	Archibald Av. & Ontario Ranch Rd.	Ontario	No
62	Archibald Av. & Eucalyptus Av.	Ontario	No
63	Archibald Av. & Merrill Av.	Ontario	No
64	Archibald Av. & Limonite Av.	Eastvale	No
65	Turner Av. & Ontario Ranch Rd.	Ontario	No
66	Harrison Av. & Limonite Av.	Eastvale	No
67	Haven Av. & Ontario Ranch Rd.	Ontario	No
68	Sumner Av. & Limonite Av.	Eastvale	No
69	Scholar Way & Limonite Av.	Eastvale	No
70	Hamner Av. & Ontario Ranch Rd.	Eastvale, Ontario	No
71	Hamner Av. & Limonite Av.	Eastvale	No
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	Eastvale, Caltrans	No
73	I-15 SB Ramps & Limonite Av.	Eastvale, Caltrans	Yes
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	Jurupa Valley, Caltrans	No
75	I-15 NB Ramps & Limonite Av.	Jurupa Valley, Caltrans	Yes

The intent of a CMP is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related deficiencies, and improve air quality. Counties within California have developed CMPs with varying methods and strategies to meet the intent of the CMP legislation. Study area intersections that are identified as CMP facilities in the County of San Bernardino per the San Bernardino County Transportation Authority (SBCTA) CMP are indicated on Table 1-1. (1)

EXHIBIT 1-2: LOCATION MAP



## 1.4 PROJECT DEFICIENCIES

This section provides a summary of Project deficiencies. Section 2 *Methodologies* provides information on the methodologies used in the analysis and Section 5 *E+P Traffic Analysis*, Section 6 *Opening Year Cumulative (2024)*, and Section 7 *Horizon Year (2040) Traffic Analysis* includes the detailed analysis. A summary of LOS results for all analysis scenarios is presented on Exhibit 1-3.

### 1.4.1 EXISTING (2021) CONDITIONS

The existing study area intersections are currently operating at acceptable LOS during the peak hours with the exception of the following intersections:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E PM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM peak hour; LOS E PM peak hour
- Walker Avenue & Edison Avenue (#36) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & SR-60 WB Ramps (#56) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#64) – LOS E AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F PM peak hour only

### 1.4.2 E+P (PHASE 1) CONDITIONS

The following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS E AM and PM peak hours

**EXHIBIT 1-3 (1of3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO**

#	Intersection	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
1	SR-71 SB Ramps & Grand Av.	●	●	●	●	●	●	●	●
2	SR-71 SB Ramps & Butterfield Ranch Rd.	●	●	●	●	●	●	●	●
3	SR-71 NB Ramps & Edison Av.	●	●	●	●	●	●	●	●
4	SR-71 NB Ramps & Euclid Av. (SR-83)	●	●	●	●	●	●	●	●
5	Pipeline Av. & Edison Av.	●	●	●	●	●	●	●	●
6	Ramona Av. & Edison Av.	●	●	●	●	●	●	●	●
7	Central Av. & Edison Av.	●	●	●	●	●	●	●	●
8	Mountain Av. & Edison Av.	●	●	●	●	●	●	●	●
9	San Antonio Av. & Edison Av.	●	●	●	●	●	●	●	●
10	Euclid Av. (SR-83) & SR-60 WB Ramps	●	●	●	●	●	●	●	●
11	Euclid Av. (SR-83) & SR-60 EB Ramps	●	●	●	●	●	●	●	●
12	Euclid Av. (SR-83) & Walnut Av.	●	●	●	●	●	●	●	●
13	Euclid Av. (SR-83) & Riverside Dr.	●	●	●	●	●	●	●	●
14	Euclid Av. (SR-83) & Chino Av.	●	●	●	●	●	●	●	●
15	Euclid Av. (SR-83) & Schaefer Av.	●	●	●	●	●	●	●	●
16	Euclid Av. (SR-83) & Edison Av.	●	●	●	●	●	●	●	●
17	Euclid Av. (SR-83) & Eucalyptus Av.	●	●	●	●	●	●	●	●
18	Euclid Av. (SR-83) & Merrill Av.	●	●	●	●	●	●	●	●
19	Euclid Av. (SR-83) & Kimball Av.	●	●	●	●	●	●	●	●
20	Euclid Av. (SR-83) & Bickmore Av.	●	●	●	●	●	●	●	●
21	Euclid Av. (SR-83) & Pine Av.	●	●	●	●	●	●	●	●
22	Campus Av. & Eucalyptus Av.	NA	NA	●	NA	NA	●	NA	●
23	Campus Av. & Merrill Av.	NA	NA	●	NA	NA	●	NA	●
24	Bon View Av. & Edison Av.	●	●	●	●	●	●	●	●
25	Bon View Av. & Eucalyptus Av.	●	●	●	●	●	●	●	●

**LEGEND:**

- = AM PEAK HOUR
- = PM PEAK HOUR
- = ACCEPTABLE LOS A-E
- = DEFICIENT LOS E
- = DEFICIENT LOS F
- NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

**EXHIBIT 1-3 (20F3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO**

		Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
26	Bon View Av. & Dwy. 1	NA	●	●	NA	●	●	NA	●
27	Bon View Av. & Dwy. 2	NA	●	●	NA	●	●	NA	●
28	Bon View Av. & Merrill Av.	●	●	●	●	●	●	●	●
29	Dwy. 3 & Merrill Av.	NA	●	●	NA	●	●	NA	●
30	Dwy. 4 & Eucalyptus Av.	NA	●	●	NA	●	●	NA	●
31	Dwy. 5 & Merrill Av.	NA	●	●	NA	●	●	NA	●
32	Dwy. 6 & Eucalyptus Av.	NA	●	●	NA	●	●	NA	●
33	Dwy. 7 & Merrill Av.	NA	●	●	NA	●	●	NA	●
34	Dwy. 8 & Eucalyptus Av.	NA	●	●	NA	●	●	NA	●
35	Dwy. 9 & Eucalyptus Av.	NA	●	●	NA	●	●	NA	●
36	Grove Av. & SR-60 WB Ramps	●	●	●	●	●	●	●	●
37	Grove Av. & SR-60 EB Ramps	●	●	●	●	●	●	●	●
38	Grove Av. & Walnut Av.	●	●	●	●	●	●	●	●
39	Grove Av. & Riverside Dr.	●	●	●	●	●	●	●	●
40	Grove Av. & Chino Av.	●	●	●	●	●	●	●	●
41	Grove Av. & Schaefer Av.	●	●	●	●	●	●	●	●
42	Grove Av. & Edison Av.	●	●	●	●	●	●	●	●
43	Grove Av. & Eucalyptus Av.	●	●	●	●	●	●	●	●
44	Grove Av. & Dwy. 10	NA	●	●	NA	●	●	NA	●
45	Grove Av. & Dwy. 11	NA	●	●	NA	●	●	NA	●
46	Grove Av. & Dwy. 12	NA	●	●	NA	●	●	NA	●
47	Grove Av. & Merrill Av.	●	●	●	●	●	●	●	●
48	Walker Av. & Edison Av.	●	●	●	●	●	●	●	●
49	Walker Av./Flight Av. & Merrill Av.	●	●	●	●	●	●	●	●
50	Baker Av./Van Vliet Av. & Merrill Av.	●	●	●	●	●	●	●	●

**LEGEND:**

- = AM PEAK HOUR
- = PM PEAK HOUR
- = ACCEPTABLE LOS A-E
- = DEFICIENT LOS E
- = DEFICIENT LOS F
- NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

**EXHIBIT 1-3 (30F3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO**

#	Intersection	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
51	Vineyard Av. & Edison Av.	NA	NA	NA	NA	NA	NA		
52	Vineyard Av./Hellman Av. & Merrill Av.								
53	Hellman Av. & Kimball Av.								
54	Carpenter Av. & Merrill Av.								
55	Hellman Av. & Edison Av.	NA	NA	NA	NA	NA	NA		
56	Archibald Av. & SR-60 WB Ramps								
57	Archibald Av. & SR-60 EB Ramps								
58	Archibald Av. & Riverside Dr.								
59	Archibald Av. & Chino Av.								
60	Archibald Av. & Schaefer Av.								
61	Archibald Av. & Ontario Ranch Rd.								
62	Archibald Av. & Eucalyptus Av.								
63	Archibald Av. & Merrill Av.								
64	Archibald Av. & Limonite Av.								
65	Turner Av. & Ontario Ranch Rd.								
66	Harrison Av. & Limonite Av.								
67	Haven Av. & Ontario Ranch Rd.								
68	Sumner Av. & Limonite Av.								
69	Scholar Wy. & Limonite Av.								
70	Hamner Av. & Ontario Ranch Rd.								
71	Hamner Av. & Limonite Av.								
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.								
73	I-15 SB Ramps & Limonite Av.								
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.								
75	I-15 NB Ramps & Limonite Av.								

**LEGEND:**

- = AM PEAK HOUR
- = PM PEAK HOUR
- = ACCEPTABLE LOS A-E
- = DEFICIENT LOS E
- = DEFICIENT LOS F
- NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

### 1.4.3 E+P (PROJECT BUILDOUT) CONDITIONS

The following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours

### 1.4.4 OPENING YEAR CUMULATIVE (2024) CONDITIONS

The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) Without Project traffic conditions:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Grove Avenue & SR-60 EB Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM peak hour only
- Archibald Avenue & Merrill Avenue (#63) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#56) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#63) – LOS E AM peak hour; LOS F PM peak hour



The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project traffic conditions with the addition of Phase 1 Project traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions with the addition of Project Buildout traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Campus Avenue & Merrill Avenue (#23) – LOS F PM peak hour only
- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

**1.4.5 HORIZON YEAR (2040) CONDITIONS**

The following additional study area intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- SR-71 Southbound Ramps & Grand Avenue (#1) – LOS E PM peak hour only
- SR-71 Southbound Ramps & Butterfield Ranch Road (#2) – LOS E AM and PM peak hours
- SR-71 Northbound Ramps & Edison Avenue (#3) – LOS F AM peak hour only
- Central Avenue & Edison Avenue (#7) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#10) –LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#14) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Schaefer Avenue (#15) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#17) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Bickmore Avenue (#20) – LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F AM and PM peak hours
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Eucalyptus Avenue (#25) – LOS F PM peak hour only
- Bon View Avenue & Merrill Avenue (#28) – LOS F AM and PM peak hours

- Grove Avenue & SR-60 Westbound Ramps (#36) – LOS E AM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS F AM and PM peak hours
- Grove Avenue & Riverside Drive (#39) – LOS F AM and PM peak hours
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F AM and PM peak hours
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue & Eucalyptus Avenue (#37) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50) – LOS F PM peak hour only
- Vineyard Avenue & Edison Avenue (#51) – LOS F PM peak hour only
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52) – LOS F AM and PM peak hours
- Hellman Avenue & Kimball Avenue (#53) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Hellman Avenue & Edison Avenue (#55) – LOS F PM peak hour only
- Archibald Avenue & Riverside Drive (#58) – LOS F AM and PM peak hours
- Archibald Avenue & Schaefer Avenue (#60) – LOS F PM peak hour only
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM and PM peak hours
- Archibald Avenue & Eucalyptus Avenue (#62) – LOS F AM and PM peak hours
- Archibald Avenue & Merrill Avenue (#63) – LOS F AM and PM peak hours
- Archibald Avenue & Limonite Avenue (#64) – LOS F AM and PM peak hours
- Turner Avenue & Ontario Ranch Road (#65) – LOS F AM and PM peak hours
- Haven Avenue & Ontario Ranch Road (#67) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F AM and PM peak hours

The following study area intersection is anticipated to operate at a deficient LOS during one or both peak hours for Horizon Year (2040) With Project traffic conditions with the addition of Project traffic, in addition to the locations identified above for Horizon Year (2040) Without Project traffic conditions.

- Campus Avenue & Eucalyptus Avenue (#22) – LOS F PM peak hour only
- Campus Avenue & Merrill Avenue (#23) – LOS F AM and PM peak hours

## 1.5 RECOMMENDATIONS

### 1.5.1 SITE ACCESS AND SITE ADJACENT ROADWAY RECOMMENDATIONS

The following recommendations are based on the improvements needed to accommodate site access. Exhibit 1-4 shows the site adjacent recommendations for Phase 1 and Exhibit 1-5 shows the Phase 2 off-site improvement recommendations.

#### *Phase 1 Conditions:*

**Recommendation 1 – Bon View Avenue & Driveway 1 (#26)** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the westbound approach and a shared left-right turn lane.

**Recommendation 2 – Bon View Avenue & Driveway 2 (#27)** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the westbound approach and a right turn lane.

**Recommendation 3 – Bon View Avenue & Merrill Avenue (#28)** – The following improvement is necessary to accommodate site access:

- Project to construct a westbound right turn lane.

**Recommendation 4 – Driveway 3 & Merrill Avenue (#29)** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the southbound approach and a right turn lane.
- Project to construct a westbound shared through-right turn lane.

**Recommendation 5 – Driveway 4 & Eucalyptus Avenue (#30)** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a shared left-right turn lane.
- Project to construct an eastbound shared through-right turn lane.

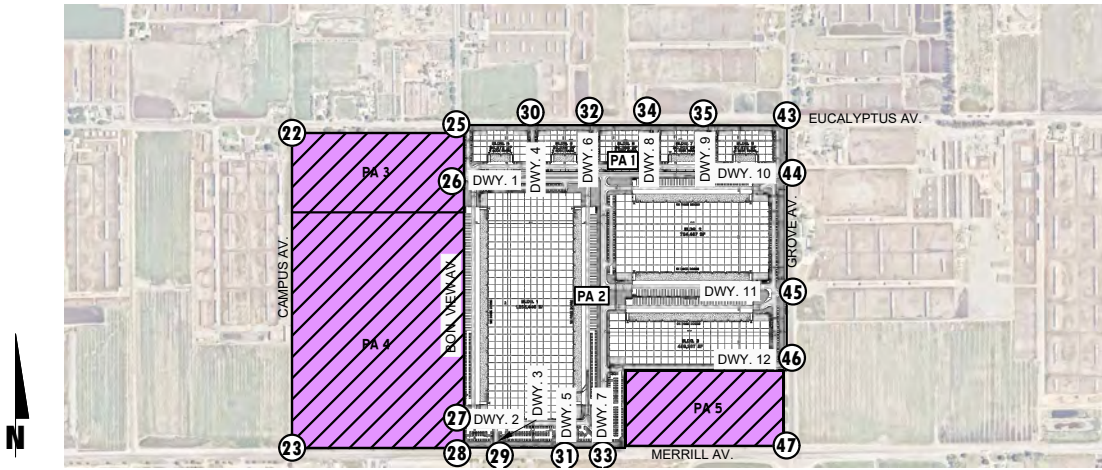
**Recommendation 6 – Driveway 5 & Merrill Avenue (#31)** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the southbound approach and a right turn lane.
- Project to construct a westbound shared through-right turn lane.

**Recommendation 7 – Driveway 6 & Eucalyptus Avenue (#32)** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a right turn lane.
- Project to construct an eastbound shared through-right turn lane.

**EXHIBIT 1-4: SITE ADJACENT ROADWAY AND SITE ACCESS RECOMMENDATIONS (PHASE 1)**



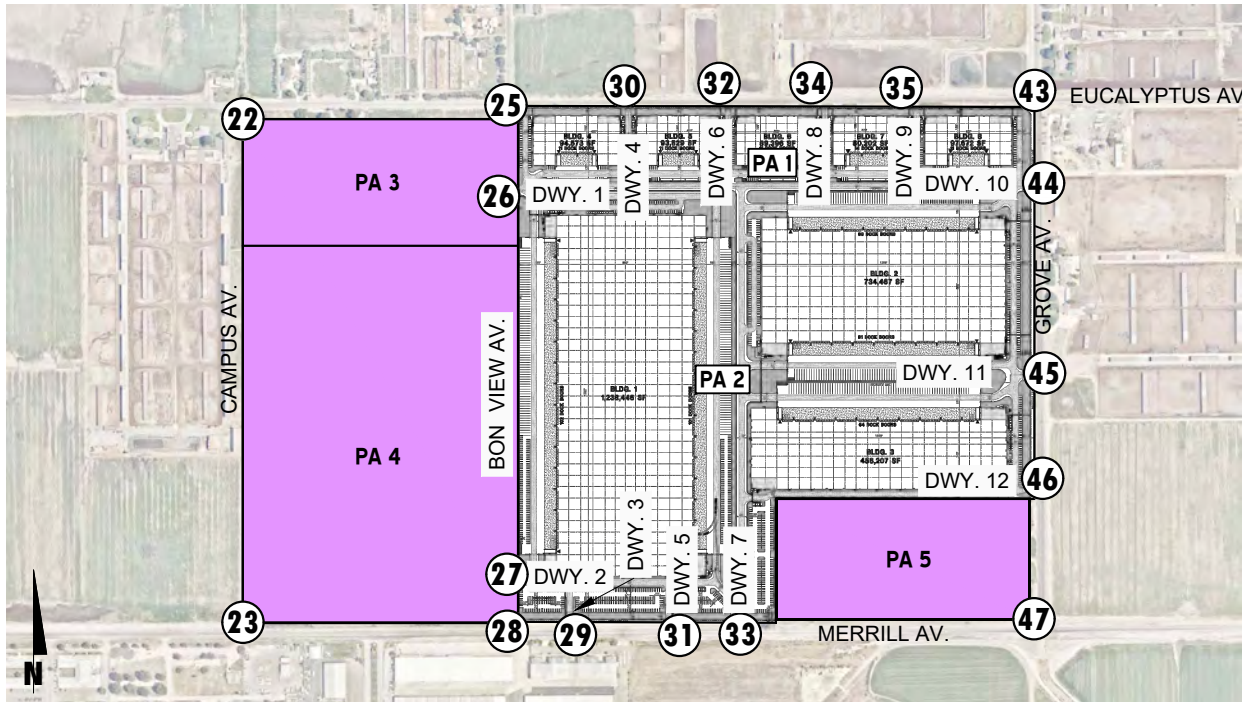
25	Bon View Av. & Eucalyptus Av.	26	Bon View Av. & Dwy. 1	27	Bon View Av. & Dwy. 2	28	Bon View Av. & Merrill Av.	29	Dwy. 3 & Merrill Av.	30	Dwy. 4 & Eucalyptus Av.
[Diagram: All-way stop at intersection]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and 100' turn pocket]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]	
31	Dwy. 5 & Merrill Av.	32	Dwy. 6 & Eucalyptus Av.	33	Dwy. 7 & Merrill Av.	34	Dwy. 8 & Eucalyptus Av.	35	Dwy. 9 & Eucalyptus Av.	43	Grove Av. & Eucalyptus Av.
[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: All-way stop improvement at intersection]	

44	Grove Av. & Dwy. 10	45	Grove Av. & Dwy. 11	46	Grove Av. & Dwy. 12	47	Grove Av. & Merrill Av.
[Diagram: Lane improvement and 100' turn pocket]		[Diagram: Lane improvement and 100' turn pocket]		[Diagram: Lane improvement and stop sign improvement]		[Diagram: All-way stop at intersection]	

**LEGEND:**

- = NEW TRAFFIC SIGNAL
- = ALL WAY STOP
- = ALL WAY STOP IMPROVEMENT
- = STOP SIGN
- = STOP SIGN IMPROVEMENT
- = RECOMMENDED TURN POCKET LENGTH
- = EXISTING LANE
- = LANE IMPROVEMENT

**EXHIBIT 1-5: SITE ADJACENT ROADWAY AND SITE ACCESS RECOMMENDATIONS (PHASE 2)**



22	Campus Av. & Eucalyptus Av.	23	Campus Av. & Merrill Av.	25	Bon View Av. & Eucalyptus Av.	28	Bon View Av. & Merrill Av.	47	Grove Av. & Merrill Av.

**LEGEND:**

- = ALL WAY STOP
- = STOP SIGN
- = STOP SIGN IMPROVEMENT
- TRAP** = TRAP LANE
- = EXISTING LANE
- = LANE IMPROVEMENT
- = PREVIOUS PHASE IMPROVEMENT

**Recommendation 8 – Driveway 7 & Merrill Avenue (#33)** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the southbound approach and a shared left-right turn lane.
- Project to construct a westbound shared through-right turn lane.

**Recommendation 9 – Driveway 8 & Eucalyptus Avenue (#34)** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a right turn lane.
- Project to construct an eastbound shared through-right turn lane.

**Recommendation 10 – Driveway 9 & Eucalyptus Avenue (#35)** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a shared left-right lane.
- Project to construct an eastbound shared through-right turn lane.

**Recommendation 11 – Grove Avenue & Eucalyptus Avenue (#43)** – The following improvements are recommended:

- Project to install stop signs on the northbound and southbound approaches, converting the intersection to an all-way stop controlled intersection.
- Project to construct an eastbound right turn lane.

**Recommendation 12 – Grove Avenue & Driveway 10 (#44)** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a right turn lane.

**Recommendation 13 – Grove Avenue & Driveway 11 (#45)** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a shared left-right turn lane.

**Recommendation 14 – Grove Avenue & Driveway 12 (#46)** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a right turn lane.

There are no recommended improvements to the intersections of Bon View Avenue & Eucalyptus Avenue (#25) and Grove Avenue & Merrill Avenue (#47) for Phase 1.

**Recommendation 15 – Merrill Avenue** – Merrill Avenue is an east-west oriented roadway located along the Project’s southern boundary. Project to construct Merrill Avenue from Bon View Avenue to the western boundary of PA5 at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 16 – Eucalyptus Avenue** – Eucalyptus Avenue is an east-west oriented roadway located along the Project’s northern boundary. Project to construct Eucalyptus Avenue from Bon View Avenue to Grove Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 17 – Grove Avenue** – Grove Avenue is a north-south oriented roadway located along the Project’s eastern boundary. Project to construct Grove Avenue from the northern boundary of PA5 to Eucalyptus Avenue at its ultimate half-section width as a 4-lane other principal arterial (124-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 18 – Bon View Avenue** – Bon View Avenue is a north-south oriented roadway that bisects the Project. Project to construct Eucalyptus Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section (east side) width as a 4-lane collector (66-foot ultimate right-of-way, 40-foot curb-to-curb with 13-foot parkway) plus one lane (southbound) in compliance with the circulation recommendations found in City of Ontario General Plan.

*Phase 2 Conditions:*

**Recommendation 19 – Campus Avenue & Eucalyptus Avenue (#22)** – The following improvements are recommended to accommodate site access:

- Project to install a stop control on the northbound approach, a left turn lane, and a right turn lane.

**Recommendation 20 – Campus Avenue & Merrill Avenue (#23)** – The following improvements are recommended to accommodate site access:

- Project to install a stop control on the southbound approach and a shared left-right turn lane.
- Project to construct a westbound right turn lane.

**Recommendation 21 – Bon View Avenue & Eucalyptus Avenue (#25)** – The following improvement is recommended to accommodate site access:

- Project to construct an eastbound shared through-right turn lane.

**Recommendation 22 – Grove Avenue & Merrill Avenue (#47)** – The following improvement is recommended to accommodate site access:

- Project to construct a southbound right turn lane.

**Recommendation 23 – Merrill Avenue** – Merrill Avenue is an east-west oriented roadway located along the Project’s southern boundary. Project to construct Merrill Avenue from Campus Avenue to Bon View Avenue and from the western boundary of PA5 to Grove Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 24 – Eucalyptus Avenue** – Eucalyptus Avenue is an east-west oriented roadway located along the Project’s northern boundary. Project to construct Eucalyptus Avenue from Bon View Avenue to Campus Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 25 – Bon View Avenue** – Bon View Avenue is a north-south oriented roadway that bisects the Project. Project to construct Bon View Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section (west side) width as a 4-lane collector (66-foot ultimate right-of-way, 40-foot curb-to-curb with 13-foot parkway) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 26 – Campus Avenue** – Campus Avenue is a north-south oriented roadway located on the Project’s western boundary. Project to construct Campus Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section width as a 4-lane minor arterial (108-foot ultimate right-of-way) plus one lane (southbound) in compliance with the circulation recommendations found in City of Ontario General Plan.

**Recommendation 27 – Grove Avenue** – Grove Avenue is a north-south oriented roadway located along the Project’s eastern boundary. Project to construct Grove Avenue from Merrill Avenue to the northern boundary of PA5 at its ultimate half-section width as a 4-lane other principal arterial (124-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Department of Transportation (Caltrans) California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Sight distance at each project access point should be reviewed with respect to standard Caltrans and City of Ontario sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.



### 1.5.2 OFF-SITE RECOMMENDATIONS

The recommended improvements needed to address the cumulative deficiencies identified under Existing (2021), Opening Year Cumulative (2024), and Horizon Year (2040) traffic conditions are summarized in Table 1-2. For those improvements listed in Table 1-2 and not constructed as part of the Project, the Project Applicant's responsibility for the Project's contributions towards deficient intersections is fulfilled through payment of fees (e.g., DIF) or fair share that would be assigned to construction of the identified recommended improvements. Please refer to Section 8 *Local and Regional Funding Mechanisms*.

Table 1-2 also summarizes the applicable cost associated with each of the recommended improvements based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a cost escalation factor of 1.568 to reflect current (2021) costs. A rough order of magnitude cost has been prepared to determine the appropriate contribution value based upon the Project's fair share of traffic as part of the project approval process. Based on the Project fair share percentages, the Project's fair share cost is estimated at \$1,869,943. These estimates are a rough order of magnitude only as they are intended only for disclosure purposes and do not imply any legal responsibility or formula for contributions or mitigation.

**Recommendation 28** – Prior to the issuance of building permits, the Project Applicant shall pay the Project's fair share amount of \$1,869,943 for the improvements identified in Table 1-2 at intersections located within the City of Ontario, or as agreed to by the City and Project Applicant.

### 1.6 TRUCK ACCESS

Due to the typical wide turning radius of large trucks, a truck turning template has been overlaid on the site plan at each applicable Project driveway anticipated to be utilized by heavy trucks in order to determine appropriate curb radii and to verify that trucks will have sufficient space to execute turning maneuvers (see Exhibit 1-6). A WB-67 (53-foot trailer) has been utilized for the purposes of this analysis. As shown on Exhibit 1-6, the following change is necessary in order to accommodate the wide turning radius of the heavy trucks:

- Driveway 1 should be modified to provide a 50-foot curb radius on the northeast and southeast corners and to widen the drive aisle to 60-feet.

Table 1-2  
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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵
1	SR-71 SB Ramps & Grand Av.	Chino Hills, Caltrans	None	None	None	None	None	None	Modify the traffic signal to accommodate a 120-second cycle length	Same	No		Fair Share	\$11,760	4.9%	\$574
													<b>Total</b>	<b>\$11,760</b>		<b>\$574</b>
2	SR-71 SB Ramps & Butterfield Ranch Rd.	Chino Hills, Caltrans	None	None	None	None	None	None	Widen the SB approach to provide dual left turn lanes, one through/right turn lane, and one right turn lane	Same	No		Fair Share	\$548,800	1.5%	\$8,018
													<b>Total</b>	<b>\$548,800</b>		<b>\$8,018</b>
3	SR-71 NB Ramps & Edison Av.	Chino, Caltrans	None	None	None	None	None	None	Modify the traffic signal to accommodate a 120-second cycle length	Same	No		Fair Share	\$11,760	5.2%	\$612
													<b>Total</b>	<b>\$11,760</b>		<b>\$612</b>
7	Central Av. & Edison Av.	Chino	None	None	None	None	None	None	Stripe the 2nd EB left turn lane Add EB right turn lane Modify the traffic signal to implement overlap phasing for the NB right turn lane	Same Same Same	No No No		Fair Share Fair Share Fair Share	\$39,200 \$78,400 \$117,600	5.0%	\$1,961 \$3,922 \$5,883
													<b>Total</b>	<b>\$235,200</b>		<b>\$11,765</b>
10	Euclid Av. (SR-83) & SR-60 WB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	Yes	ST-107	Fees	\$0	--	\$0
													<b>Total</b>	<b>\$0</b>		<b>\$0</b>
11	Euclid Av. (SR-83) & SR-60 EB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add EB right turn lane Add 2nd SB left turn lane	Same Same	Yes Yes	ST-107 ST-107	Fees Fees	\$0 \$0	--	\$0 \$0
													<b>Total</b>	<b>\$0</b>		<b>\$0</b>
13	Euclid Av. (SR-83) & Riverside Dr.	Caltrans, Chino, Ontario	EB right turn lane	Same	Same Restripe the northbound approach to provide a left turn lane, two through lanes, and one shared through-right turn lane	Same Same	Same Same	Same Same	Same Same	Same Same	No Yes	ST-012	Fair Share Construct	\$78,400 \$0	5.1%	\$3,967 \$0
						Add 3rd SB through lane Add 2nd EB through lane	Same Same	Same Same	Same Same	Same Same	No No No No No		Fair Share Fair Share Fair Share Fair Share Fair Share	\$282,240 \$282,240 \$78,400 \$78,400 \$78,400		\$14,281 \$14,281 \$3,967 \$3,967 \$3,967
													<b>Total</b>	<b>\$878,080</b>		<b>\$44,430</b>
14	Euclid Av. (SR-83) & Chino Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane Add 3rd SB through lane Add WB left turn lane	Same Same Same	Yes Yes No	ST-012 ST-012	Fees Fees Fair Share	\$0 \$0 \$78,400	6.2%	\$0 \$0 \$4,848
													<b>Total</b>	<b>\$78,400</b>		<b>\$4,848</b>
15	Euclid Av. (SR-83) & Schaefer Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane Add 3rd SB through lane Add 2nd NB left turn lane Add 2nd SB left turn lane Add 2nd EB left turn lane	Same Same Same Same Same	Yes Yes No No No	ST-012 ST-012	Fees Fees Fair Share Fair Share Fair Share	\$0 \$0 \$78,400 \$78,400 \$78,400	5.3%	\$0 \$0 \$4,175 \$4,175 \$4,175
													<b>Total</b>	<b>\$235,200</b>		<b>\$12,524</b>

Table 1-2  
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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵																																						
16	Euclid Av. (SR-83) & Edison Av.	Caltrans, Chino, Ontario	None	None	Add WB right turn lane	Same Add 3rd NB through lane Add 3rd SB through lane	Same Same Same	Same Same Same	Same Same Same Add 2nd NB left turn lane Add 2nd SB left turn lane Add 2nd EB left turn lane Add 2nd EB through lane Add 3rd EB through lane Add 2nd WB left turn lane Add 2nd WB through lane Modify the traffic signal to protect the eastbound and westbound left turns, and implement overlap phasing for the southbound and westbound right turn lanes	Same Same Same Same Same Same Same Same Same	No Yes Yes No No No No No No Yes No	ST-012 ST-012        ST-007	Construct Fees Fees Fair Share Fair Share Fair Share Fair Share Fair Share Fair Share Fees Fair Share	\$0 \$0 \$0 \$78,400 \$78,400 \$78,400 \$282,240 \$282,240 \$78,400 \$0 \$117,600	6.2%	\$0 \$0 \$0 \$4,867 \$4,867 \$4,867 \$17,523 \$17,523 \$4,867 \$0 \$7,301																																						
																	<b>Total</b>	<b>\$995,680</b>		<b>\$61,817</b>																																		
																	17	Euclid Av. (SR-83) & Eucalyptus Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane Add 3rd SB through lane Add 2nd WB left turn lane Add WB right turn lane	Same Same Same Same	Yes Yes No No	ST-012 ST-012	Fees Fees Fair Share Fair Share	\$0 \$0 \$78,400 \$78,400	2.7%	\$0 \$0 \$2,141 \$2,141																					
																																		<b>Total</b>	<b>\$156,800</b>		<b>\$4,283</b>																	
																																		18	Euclid Av. (SR-83) & Merrill Av.	Caltrans, Chino, Ontario	None	Add WB left turn lane Add WB right turn lane Modify the traffic signal to implement overlap phasing for the WB right turn lane	Same Same Same	Same Same Same	Same Same Same	Same Same Same Add 3rd NB through lane Add 3rd SB through lane	Same Same Same Same Same	Same Same Same Same Same	No No No Yes No No	ST-012	Construct Construct Construct Fair Share Fees Fair Share Fair Share	\$0 \$0 \$0 \$282,240 \$0 \$78,400 \$78,400	5.5%	\$0 \$0 \$0 \$15,449 \$0 \$4,291 \$4,291				
																																																			<b>Total</b>	<b>\$556,640</b>		<b>\$30,469</b>
																																																			19	Euclid Av. (SR-83) & Kimball Av.	Caltrans, Chino	None
																	<b>Total</b>	<b>\$917,280</b>		<b>\$36,237</b>																																		
																	20	Euclid Av. (SR-83) & Bickmore Av.	Caltrans, Chino	None	None	None	None	None	None	Add 3rd NB through lane Add 3rd SB through lane	Same Same	No No		Fair Share Fair Share	\$282,240 \$282,240	4.7%	\$13,256 \$13,256																					
																																		<b>Total</b>	<b>\$564,480</b>		<b>\$26,512</b>																	

**Table 1-2**  
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**Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements**

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵							
21	Euclid Av. (SR-83) & Pine Av.	Caltrans, Chino	None	None	None	Add NB free right turn lane	Same	Same	Same	Same	No		Fair Share	\$117,600	4.5%	\$5,293							
						Add 3rd NB through lane	Same	Same	Same	Same	No		Fair Share	\$282,240		\$12,703							
						Add 3rd SB through lane	Same	Same	Same	Same	No		Fair Share	\$282,240		\$12,703							
						Add 2nd EB through lane	Same	Same	Same	Same	No		Fair Share	\$282,240		\$12,703							
									Add 2nd NB left turn lane	Same	No		Fair Share	\$78,400		\$3,529							
									Add 2nd SB left turn lane	Same	No		Fair Share	\$78,400		\$3,529							
									Add SB right turn lane	Same	No		Fair Share	\$78,400		\$3,529							
									Add 2nd WB through lane	Same	No		Fair Share	\$282,240		\$12,703							
									Add WB right turn lane	Same	No		Fair Share	\$78,400		\$3,529							
									<b>Total</b>											<b>\$1,560,160</b>		<b>\$70,218</b>	
22	Campus Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	Install Stop Control on NB Approach	Install a Traffic Signal	Same	No		Fair Share	\$250,000	9.6%	\$24,010							
								Add NB left turn lane	Same	Same	No		Fair Share	\$78,400		\$7,529							
								Add NB right turn lane	Same	Same	No		Fair Share	\$78,400		\$7,529							
								Add WB left turn lane	Same	Same	No		Fair Share	\$78,400		\$7,529							
											Add 2nd EB through lane	Same	Yes	ST-011		Fees	\$0	\$0					
											Add 2nd WB through lane	Same	Yes	ST-011		Fees	\$0	\$0					
			<b>Total</b>										<b>\$485,200</b>		<b>\$46,598</b>								
23	Campus Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	Install a Traffic Signal	Same	Same	No		Fair Share	\$250,000	12.3%	\$30,681							
								Add SB left-right turn lane	Same	Same	No		Fair Share	\$78,400		\$9,622							
								Add EB left turn lane	Same	Same	No		Fair Share	\$78,400		\$9,622							
											Add SB left turn lane	Same	No			Fair Share	\$78,400	\$9,622					
											Add 2nd WB through lane	Same	Yes	ST-015		Fees	\$0	\$0					
											Add 2nd EB through lane	Same	No			Fair Share	\$282,240	\$34,638					
			<b>Total</b>										<b>\$767,440</b>		<b>\$94,183</b>								
24	Bon View Av. & Edison Av.	Ontario	None	None	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Construct	\$0	4.6%	\$0							
													Fair Share	\$78,400		\$78,400							
													Fair Share	\$78,400		\$3,627							
													Fair Share	\$78,400		\$3,627							
																	Add 2nd EB through lane	Same	Yes	ST-007	Fees	\$0	\$0
																	Add 3rd EB through lane	Same	Yes	ST-007	Fees	\$0	\$0
																	Add WB left turn lane	Same	No		Fair Share	\$78,400	\$3,627
																	Add 2nd WB through lane	Same	Yes	ST-007	Fees	\$0	\$0
																	Add 3rd WB through lane	Same	Yes	ST-007	Fees	\$0	\$0
																	<b>Total</b>						
25	Bon View Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	None	Install a Traffic Signal	Same	No		Fair Share	\$250,000	23.6%	\$59,022							
									Add EB left turn lane	Same	Same	No		Fair Share		\$78,400	\$18,509						
									Add WB left turn lane	Same	Same	No		Fair Share		\$78,400	\$18,509						
									Add 2nd EB through lane	Same	Same	No		Fair Share		\$282,240	\$66,633						
			<b>Total</b>										<b>\$689,040</b>		<b>\$162,673</b>								
28	Bon View Av. & Merrill Av.	Ontario, Chino	None	None	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Construct	\$0	16.4%	\$0							
													Fair Share	\$78,400		\$12,878							
													Construct	\$0		\$0							
													Construct	\$0		\$0							
													Fair Share	\$282,240		\$46,362							
			Add 2nd WB through lane	Same	Yes	ST-015	Fees	\$0	\$0														
			Add 2nd EB through lane	Same	No		Fair Share	\$282,240	\$46,362														
			<b>Total</b>										<b>\$360,640</b>		<b>\$59,240</b>								

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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵
36	Grove Av. & SR-60 WB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	\$627,200	4.4%	\$27,526
													<b>Total</b>	<b>\$627,200</b>		<b>\$27,526</b>
37	Grove Av. & SR-60 EB Ramps	Ontario, Caltrans	Add EB left turn lane	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	\$548,800	6.9%	\$37,920
									Add 2nd SB left turn lane	Same	No		Fair Share	\$627,200		\$43,337
													<b>Total</b>	<b>\$1,176,000</b>		<b>\$81,256</b>
39	Grove Av. & Riverside Dr.	Ontario	None	None	None	None	Add 2nd NB through lane	Same	Add 2nd NB through lane	Same	Yes	ST-013	Fees	\$0	6.1%	\$0
							Restripe the SB approach to provide one left turn lane, one through lane, one shared through-right turn lane	Same	Same	Same	No		Fees	\$0		\$0
									Add 2nd EB through lane	Same	Yes	ST-019	Fair Share	\$282,240		\$17,153
									Add 2nd NB through lane	Same	Yes		Fair Share	\$282,240		\$17,153
													<b>Total</b>	<b>\$564,480</b>		<b>\$34,305</b>
40	Grove Av. & Chino Av.	Ontario	None	None	None	None	Install a Traffic Signal	Same	Install a Traffic Signal	Same	No		Fair Share	\$250,000	7.0%	\$17,405
									Add NB left turn lane	Same	No		Fair Share	\$78,400		\$5,458
									Add 2nd NB through lane	Same	Yes	ST-013	Fees	\$0		\$0
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$5,458
									Add 2nd SB through lane	Same	Yes	ST-013	Fees	\$0		\$0
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$5,458
									Add WB left turn lane	Same	No		Fair Share	\$78,400		\$5,458
													<b>Total</b>	<b>\$563,600</b>		<b>\$39,238</b>
41	Grove Av. & Schaefer Av.	Ontario	None	None	None	None	Install a Traffic Signal	Same	Install a Traffic Signal	Same	No		Fair Share	\$250,000	7.3%	\$18,224
									Add NB left turn lane	Same	No		Fair Share	\$78,400		\$5,715
									Add 2nd NB through lane	Same	Yes	ST-013	Fees	\$0		\$0
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$5,715
									Add 2nd SB through lane	Same	Yes	ST-013	Fees	\$0		\$0
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$5,715
									Add 2nd EB through lane	Same	Yes	ST-020	Fees	\$0		\$0
									Add WB left turn lane	Same	No		Fair Share	\$78,400		\$5,715
									Add 2nd WB through lane	Same	Yes	ST-020	Fees	\$0		\$0
													<b>Total</b>	<b>\$563,600</b>		<b>\$41,084</b>
42	Grove Av. & Edison Av.	Ontario	Install a Traffic Signal	Same	Same	Install a Traffic Signal	Same	Same	Same	Same	No		Fair Share	\$250,000	8.0%	\$20,085
						Add NB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$6,299
						Add 2nd NB through lane	Same	Same	Same	Same	Yes	ST-013	Fees	\$0		\$0
						Add SB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$6,299
						Add 2nd SB through lane	Same	Same	Same	Same	Yes	ST-013	Fees	\$0		\$0
						Add EB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$6,299
						Add WB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$6,299
									Add 2nd EB through lane	Same	Yes	ST-007	Fees	\$0		\$0
									Add 3rd EB through lane	Same	Yes	ST-007	Fees	\$0		\$0
									Add 2nd WB through lane	Same	Yes	ST-007	Fees	\$0		\$0
									Add 3rd WB through lane	Same	Yes	ST-007	Fees	\$0		\$0
									Add WB right turn lane	Same	No		Fair Share	\$78,400		\$6,299
													<b>Total</b>	<b>\$642,000</b>		<b>\$51,579</b>

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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵
43	Grove Av. & Eucalyptus Av.	Ontario	Install a Traffic Signal	Same Add NB left turn lane Add 2nd NB through lane Add SB left turn lane	Same Same Same Same Add EB left turn lane	Same Same Same Same Same Add 2nd SB through lane Add WB left turn lane	Same Same Same Same Same Same Same	Same Same Same Same Same Add 2nd WB through lane Add 2nd EB through lane	Same Same Same Same Same Same Same	Same Same Same Same Same Same Same	No No Yes No No Yes No Yes Yes	ST-013     ST-013  ST-011 ST-011	Fair Share Fair Share Construct Fair Share Fair Share Fees Fair Share Fees Fees	\$250,000 \$78,400 \$0 \$78,400 \$78,400 \$0 \$78,400 \$0 \$0	25.7%	\$64,202 \$20,134 \$0 \$20,134 \$20,134 \$0 \$20,134 \$0 \$0
44	Grove Av. & Merrill Av.	Ontario, Chino	Install a Traffic Signal	Same	Same Add EB left turn lane	Same Same Add 2nd WB through lane Add SB left turn lane	Same Same Same Same	Same Same Same Same	Same Same Same Same Add 2nd EB through lane	Same Same Same Same Same	No No Yes No Yes	ST-015   ST-015	Fair Share Construct Construct Fair Share Fees	\$250,000 \$78,400 \$0 \$78,400 \$0	20.0%	\$50,061 \$15,699 \$0 \$15,699 \$0
48	Walker Av. & Edison Av.	Ontario	None	None	Install a Traffic Signal	Same	Same	Same	Same Add NB left turn lane Add SB left turn lane Add EB left turn lane Add 2nd EB through lane Add WB left turn lane Add 2nd WB through lane Add 3rd EB through lane Add 3rd WB through lane	Same Same Same Same Same Same Same Same	No No No No Yes No Yes No No	ST-007    ST-008	Fair Share Fair Share Fair Share Fair Share Fees Fair Share Fees Fair Share Fair Share	\$250,000 \$78,400 \$78,400 \$78,400 \$0 \$78,400 \$0 \$282,240 \$282,240	3.6%	\$8,919 \$2,797 \$2,797 \$2,797 \$0 \$2,797 \$0 \$10,070 \$10,070
49	Walker Av./Flight Av. & Merrill Av.	Ontario, Chino	None	Install a Traffic Signal	Same	Same Add NB left turn lane Add SB left turn lane Add EB left turn lane Add 2nd WB through lane Add 2nd EB through lane	Same Same Same Same Same	Same Same Same Same Same	Same Same Same Same Same Same Same	Same Same Same Same Same Same Same	No No No No Yes No	ST-015	Construct Fair Share Fair Share Fair Share Fees Fair Share	\$0 \$78,400 \$78,400 \$78,400 \$0 \$282,240	15.4%	\$0 \$12,049 \$12,049 \$12,049 \$0 \$43,377
50	Van Vliet Av./Baker Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	None	Add SB shared left-through-right turn lane Add EB left turn lane Add 2nd WB through lane Install a Traffic Signal	Same Same Same Same	No No Yes No	ST-015	Fair Share Fair Share Fees Fair Share	\$78,400 \$78,400 \$0 \$250,000	16.7%	\$13,114 \$13,114 \$0 \$41,817
51	Vineyard Av. & Edison Av.	Ontario	None	None	None	None	None	None	Add 2nd EB through lane Add 3rd EB through lane Add 2nd WB through lane Add 3rd WB through lane Add NB left turn lane Add SB left turn lane Install a Traffic Signal	Same Same Same Same Same Same Same	Yes Yes Yes Yes No No No	ST-008 ST-009 ST-009 ST-009	Fees Fees Fees Fees Fair Share Fair Share Fair Share	\$0 \$0 \$0 \$0 \$78,400 \$0 \$0	4.8%	\$0 \$0 \$0 \$0 \$3,792 \$0 \$0
													<b>Total</b>	<b>\$78,400</b>		<b>\$3,792</b>

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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF? <sup>1</sup>	DIF Project #	Project Responsibility <sup>6</sup>	Total Cost <sup>2,3,4</sup>	Fair Share % <sup>4</sup>	Fair Share Cost <sup>5</sup>
52	Vineyard Av./Hellman Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	None	Add NB through lane	Same	No	ST-022	Fair Share	\$282,240	30.8%	\$86,951
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$24,153
									Add SB through lane	Same	Yes		Fees	\$0		\$0
									Add SB right turn lane	Same	No		Fair Share	\$78,400		\$24,153
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$24,153
									Add 2nd WB through lane	Same	Yes		Fees	\$0		\$0
									Install a Traffic Signal	Same	No		Fair Share	\$250,000		\$77,019
									Add WB right turn lane	Same	No		Fair Share	\$78,400		\$24,153
													<b>Total</b>	<b>\$845,840</b>		<b>\$260,582</b>
53	Hellman Av. & Kimball Av.	Chino, Eastvale	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	\$78,400	3.8%	\$2,959
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$2,959
									Add 2nd EB through lane	Same	No		Fair Share	\$282,240		\$10,653
54	Carpenter Av. & Merrill Av.	Ontario, Chino	Install a Traffic Signal	Same	Same	Same	Same	Same	Same	Same	No	ST-015	Fair Share	\$250,000	9.8%	\$24,597
									Add 2nd EB through lane	Same	Yes		Fees	\$0		\$0
									Add 2nd WB through lane	Same	Yes		Fees	\$0		\$0
									Add NB left turn lane	Same	No		Fair Share	\$78,400		\$7,713
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$7,713
													<b>Total</b>	<b>\$406,800</b>		<b>\$40,024</b>
55	Hellman Av. & Edison Av.	Ontario	None	None	None	None	None	None	Add 2nd EB through lane	Same	Yes	ST-009	Fees	\$0	4.5%	\$0
									Add 3rd EB through lane	Same	Yes		Fees	\$0		\$0
									Add 2nd WB through lane	Same	Yes		Fees	\$0		\$0
									Add 3rd WB through lane	Same	Yes		Fees	\$0		\$0
									Add NB left turn lane	Same	No		Fair Share	\$78,400		\$3,534
									Add NB shared through-right lane	Same	No		Fair Share	\$282,240		\$12,722
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$3,534
									Add SB shared through-right lane	Same	No		Fair Share	\$282,240		\$12,722
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$3,534
									Add WB left turn lane	Same	No		Fair Share	\$78,400		\$3,534
													<b>Total</b>	<b>\$878,080</b>		<b>\$39,580</b>
56	Archibald Av. & SR-60 WB Ramps	Ontario, Caltrans	Add 2nd NB left turn lane	Same	Same	None <sup>7</sup>	None <sup>7</sup>	None <sup>7</sup>	None <sup>7</sup>	None <sup>7</sup>	Yes	ST-106	Fees	\$0	--	\$0
			Add 3rd SB through lane	Same	Same								Fees	\$0		\$0
			Add SB right turn lane	Same	Same								Fees	\$0		\$0
			Add WB left turn lane	Same	Same								Fees	\$0		\$0
																<b>Total</b>
58	Archibald Av. & Riverside Dr.	Ontario	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	\$78,400	4.6%	\$3,628
									Add 2nd SB left turn lane	Same	No		Fair Share	\$78,400		\$3,628
60	Archibald Av. & Schaefer Av.	Ontario	None	None	None	None	None	None	Install a Traffic Signal	Same	No	ST-011	Fair Share	\$250,000	5.1%	\$12,719
									Stripe the NB left turn lane	Same	No		Fair Share	\$39,200		\$1,994
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$3,989
									Add EB shared through-right turn lane	Same	Yes		Fees	\$0		\$0
									Stripe the WB left turn, through, and right turn lane	Same	Yes		Fees	\$0		\$0
									Add SB left turn lane	Same	No		Fair Share	\$78,400		\$3,989
									Add 3rd SB through lane	Same	No		Fair Share	\$282,240		\$14,359

Table 1-2  
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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?¹	DIF Project #	Project Responsibility⁶	Total Cost²,³,⁴	Fair Share %⁴	Fair Share Cost⁵	
61	Archibald Av. & Ontario Ranch Rd.	Ontario	None	None	None	Add 2nd WB through lane	Same	Same	Same	Same	Yes	ST-010	Fees	\$0	5.5%	\$0	
									Add 2nd NB left turn lane	Same	No		Fair Share	\$78,400		\$4,307	
									Add 3rd NB through lane	Same	Yes		ST-002	Fees		\$0	\$0
									Add 3rd SB through lane	Same	Yes			Fees		\$0	\$0
									Add 3rd EB through lane	Same	Yes		ST-010	Fees		\$0	\$0
									Add 4th EB through lane	Same	Yes		ST-010	Fees		\$0	\$0
									Add 3rd WB through lane	Same	Yes		ST-010	Fees		\$0	\$0
									Add 4th WB through lane	Same	Yes		ST-010	Fees		\$0	\$0
									Add 2nd SB left turn lane	Same	No		ST-010	Fair Share		\$78,400	\$4,307
									Modify the traffic signal to implement overlap phasing for the SB right turn lane	Same	No			Fair Share		\$117,600	\$6,461
									<b>Total</b>								
62	Archibald Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	None	NB left turn lane	Same	No	ST-002	Fair Share	\$78,400	2.9%	\$2,236	
									Add 3rd NB through lane	Same	Yes		Fees	\$0		\$0	
									Add 3rd SB through lane	Same	Yes		Fees	\$0		\$0	
									Add EB left turn lane	Same	No		Fair Share	\$78,400		\$2,236	
									Add 2 EB through lanes	Same	Yes		ST-011	Fees		\$0	\$0
									Restripe the WB to accommodate left, 2 throughs and 1 right turn lane	Same	Yes			Fees		\$0	\$0
<b>Total</b>													<b>\$156,800</b>		<b>\$4,473</b>		
63	Archibald Av. & Merrill Av.	Ontario	None	None	None	Stripe SB right turn lane (in place of defacto)	Same	Same	Same	Same	No	ST-002	Construct	\$39,200	6.6%	\$2,572	
						Modify the traffic signal to implement overlap phasing for the SB right turn lane	Same	Same	Same	Same	No		Construct	\$117,600		\$7,716	
						Add 2nd EB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$5,144	
						Add 2nd NB left turn lane	Same	Same	Same	Same	No		Fair Share	\$282,240		\$0	
						Add EB free right turn lane	Same	No	ST-002	Fair Share	\$0		\$0				
Add 3rd SB through lane	Same	Yes	Fees	\$0	\$0												
<b>Total</b>													<b>\$517,440</b>		<b>\$15,433</b>		
64	Archibald Av. & Limonite Av.	Eastvale	None	None	Add 2nd WB right turn lane	Same	Same	Same	No Longer Needed	No Longer Needed	No	ST-002	Construct	\$78,400	4.5%	\$3,552	
						Add 2nd SB left turn lane	Same	Same	Same	Same	No		Fair Share	\$78,400		\$3,552	
									Add 2nd WB left turn lane	Same	No		Fair Share	\$78,400		\$3,552	
									Add 2nd NB through lane	Same	No		Fair Share	\$282,240		\$12,788	
									Add 3rd NB through lane	Same	No		Fair Share	\$282,240		\$12,788	
									Add 2nd SB through lane	Same	No		Fair Share	\$282,240		\$12,788	
									Add 3rd SB through lane	Same	No		Fair Share	\$282,240		\$12,788	
									Add 2nd EB left turn lane	Same	No		Fair Share	\$78,400		\$3,552	
									Add 2nd EB through lane	Same	No		Fair Share	\$282,240		\$12,788	
									Add 2nd WB through lane	Same	No		Fair Share	\$282,240		\$12,788	
						<b>Total</b>											
65	Turner Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	None	None	Add 3rd EB through lane	Same	Yes	ST-010	Fees	\$0	--	\$0	
									Add 3rd WB through lane	same	Yes		Fees	\$0		\$0	
<b>Total</b>													<b>\$0</b>		<b>\$0</b>		
67	Haven Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	None	None	Add 2nd NB through lane	Same	Yes	ST-014	Fees	\$0	--	\$0	
									Add 2nd SB through lane	Same	Yes		Fees	\$0		\$0	
<b>Total</b>													<b>\$0</b>		<b>\$0</b>		



**Table 1-2**  
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**Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements**

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF? <sup>1</sup>	DIF Project #	Project Responsibility <sup>6</sup>	Total Cost <sup>2,3,4</sup>	Fair Share % <sup>4</sup>	Fair Share Cost <sup>5</sup>		
70	Hamner Av. & Ontario Ranch Rd.	Ontario, Eastvale	Modify the traffic signal to extend the cycle length to 130 seconds	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	\$117,600	5.0%	\$5,898		
			Restripe the SB approach to provide two left turn lanes, two through lanes, and one shared through-right turn lane	Same	Same	Same	Same	Same	Same	Same	Same	No		Fair Share		\$39,200	\$1,966	
							Add 3rd WB through lane	Same	Same	Same	Same	No		Fair Share		\$282,240	\$14,156	
										Add EB right turn lane	Same	Same	No			Fair Share	\$78,400	\$3,932
										Modify the traffic signal to implement overlap phasing for the NB and EB right turn lanes	Same	Same	No			Fair Share	\$117,600	\$5,898
													<b>Total</b>	<b>\$635,040</b>		<b>\$31,850</b>		
													<b>Total Costs for Horizon Year (2040) Improvements</b>		<b>\$22,254,160</b>		<b>\$1,937,999</b>	
													<b>Total Project Fair Share Contribution to the City of Ontario (non-DIF/other)<sup>6</sup></b>			<b>\$1,408,135</b>		

<sup>1</sup> Improvements included in City of Ontario DIF program for local, regional and specific plan components.

<sup>2</sup> Costs have been estimated using the data provided in Appendix "G" of the CMP (2003 Update) for preliminary construction costs.

<sup>3</sup> Appendix "G" costs escalated by a factor of 1.568 per City direction except Traffic Signals.

<sup>4</sup> Program improvements constructed by project may be eligible for fee credit, at discretion of City. See Table 8-2 for Fair Share Calculations.

<sup>5</sup> Rough order of magnitude cost estimate.

<sup>6</sup> Total project fair share contribution consists of the improvements which are not already included in the City-wide DIF for those intersections wholly or partially within the City of Ontario.

<sup>7</sup> Improvements are anticipated to be constructed as part of the SR-60 Freeway/Archibald Avenue interchange improvements.

<sup>8</sup> Improvement includes modifying the traffic signal to run the northbound and southbound left turns as lead-lag, with the northbound left turn running as lag.

EXHIBIT 1-6 (1OF4): TRUCK ACCESS

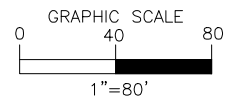
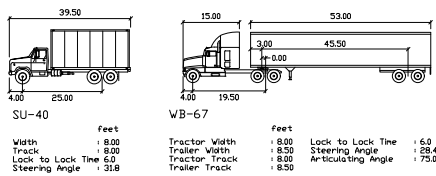
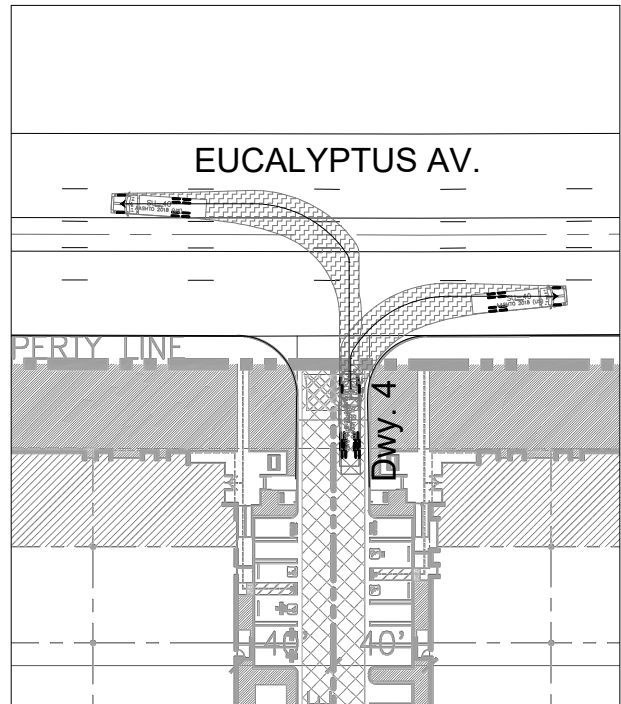
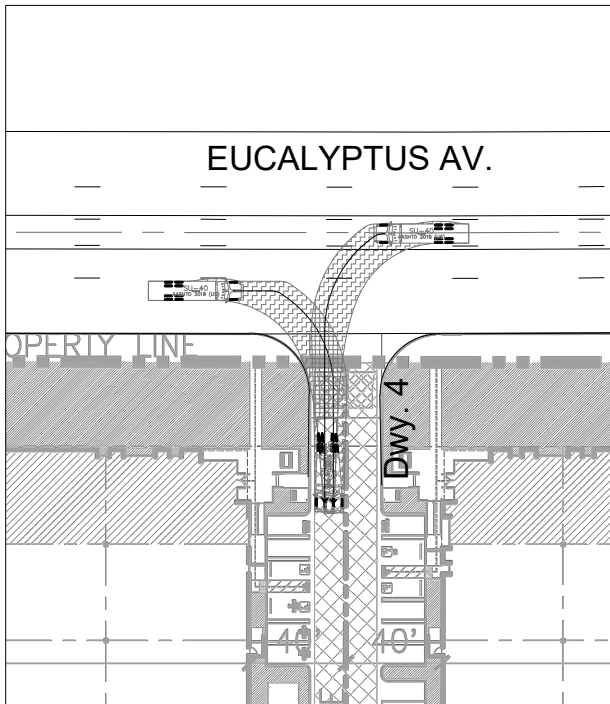
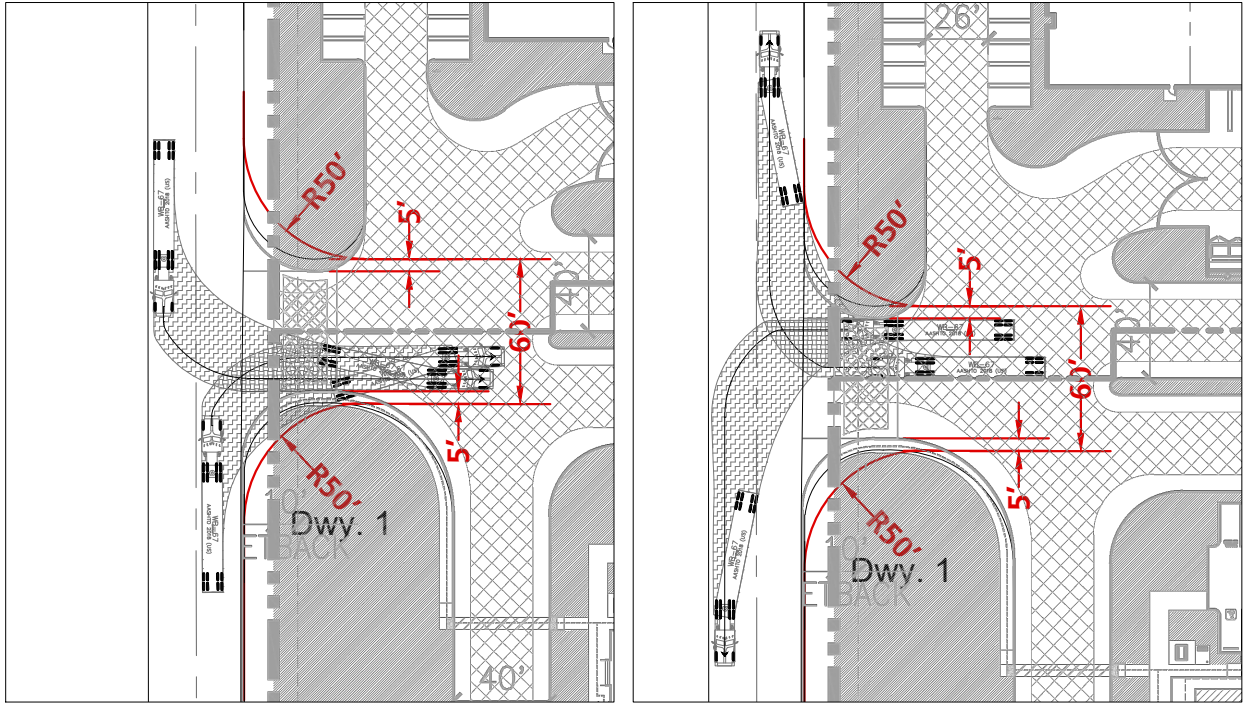
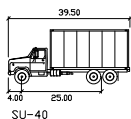
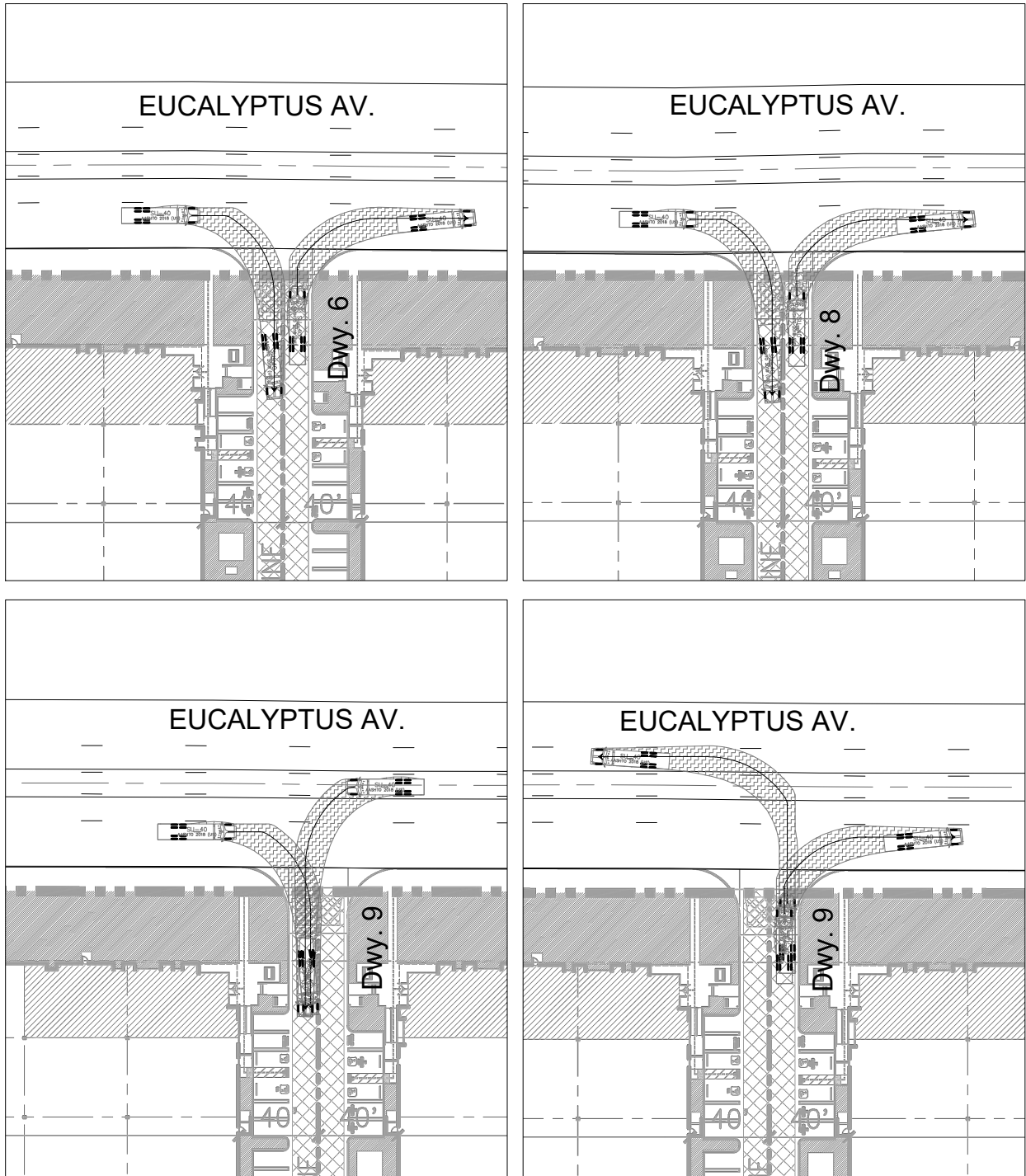


EXHIBIT 1-6 (2OF4): TRUCK ACCESS



	feet
Width	4.00
Truck	25.00
Lock to Lock Time	5.0
Steering Angle	31.8

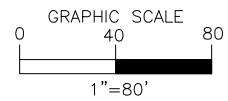
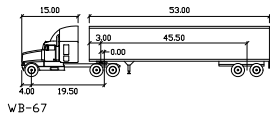
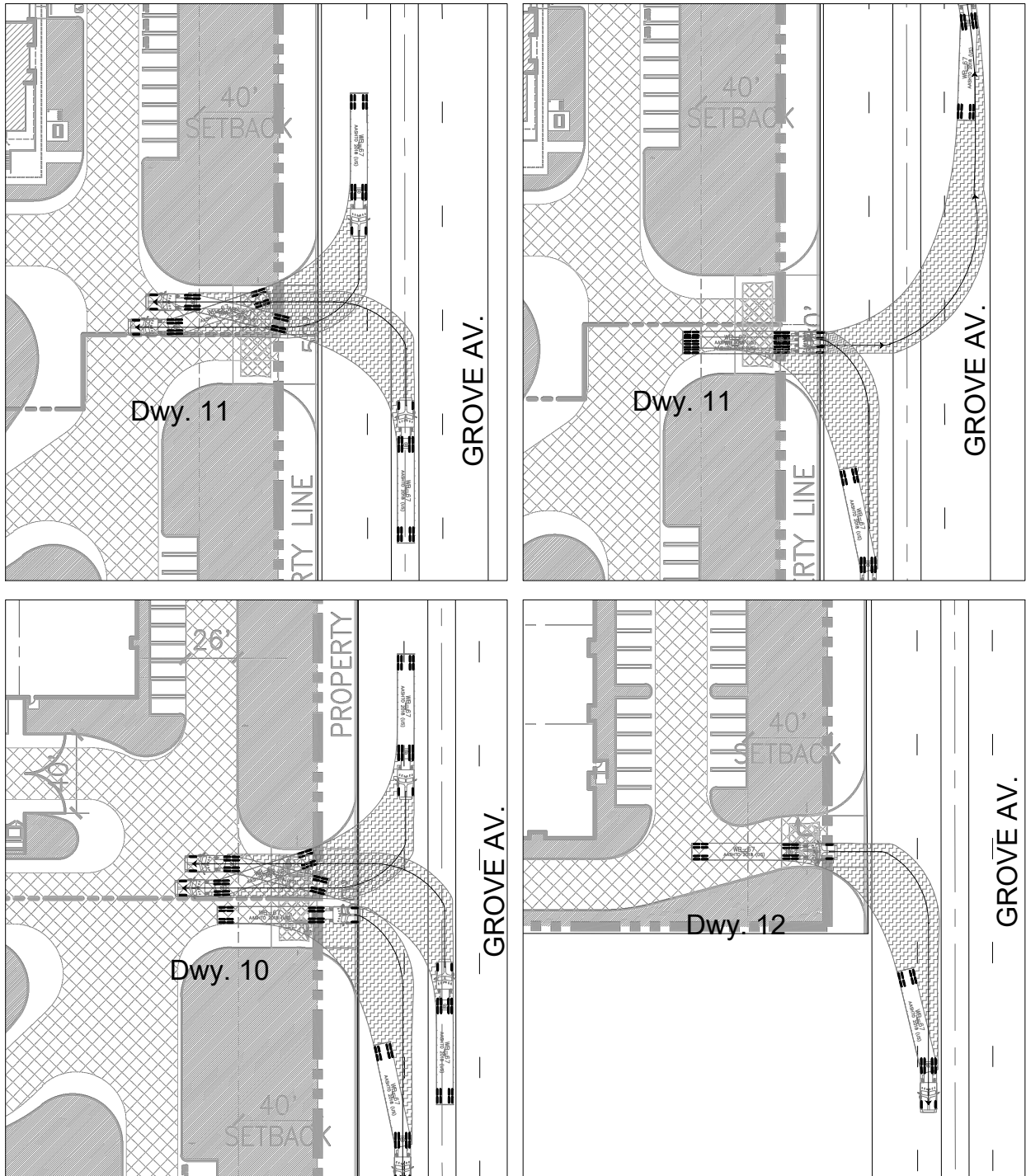


EXHIBIT 1-6 (3OF4): TRUCK ACCESS



feet	
Tractor Width	8.00
Trailer Width	8.50
Tractor Track	8.00
Trailer Track	8.50
Lock to Lock Time	6.0
Steering Angle	±28.4
Articulating Angle	±75.0

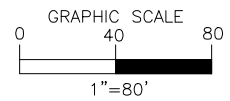
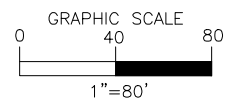
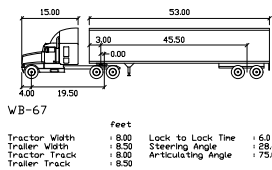
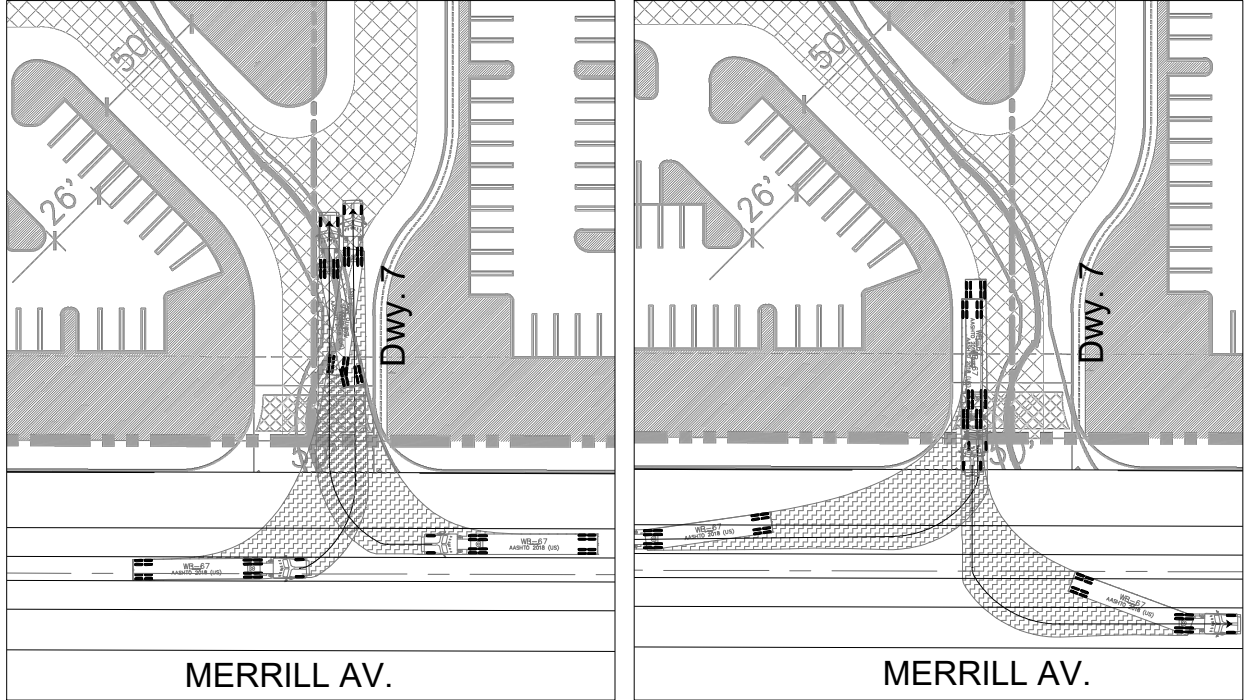


EXHIBIT 1-6 (4OF4): TRUCK ACCESS



## 2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with City of Ontario's Traffic Study Guidelines.

### 2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

### 2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6<sup>th</sup> Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (5) The HCM uses different procedures depending on the type of intersection control.

#### 2.2.1 SIGNALIZED INTERSECTIONS

##### ***City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, City of Jurupa Valley***

The City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, and City of Jurupa Valley require signalized intersection operations analysis based on the methodology described in the HCM. (5) Intersection LOS operations are based on an intersection's average control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections LOS is directly related to the average control delay per vehicle and is correlated to a LOS designation as described on Table 2-1.

**TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS**

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0	Level of Service, V/C > 1.0
Operations with very low delay occurring with favorable progression and/or short cycle length.	0 to 10.00	A	F
Operations with low delay occurring with good progression and/or short cycle lengths.	10.01 to 20.00	B	F
Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.01 to 35.00	C	F
Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.01 to 55.00	D	F
Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.01 to 80.00	E	F
Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	80.01 and up	F	F

Source: HCM (6<sup>th</sup> Edition)

Consistent with Appendix B of the San Bernardino County CMP, the following saturation flow rates, in vehicles per hour green per lane (vphgpl), will be utilized in the traffic analysis for signalized intersections:

*Existing and Opening Year Cumulative Traffic Conditions:*

- Exclusive through: 1800 vphgpl
- Exclusive left: 1700 vphgpl
- Exclusive right: 1800 vphgpl
- Exclusive dual left: 1600 vphgpl
- Exclusive triple left: 1500 vphgpl

*Horizon Year (2040) Traffic Conditions:*

- Exclusive through: 1900 vphgpl
- Exclusive left: 1800 vphgpl
- Exclusive dual left: 1700 vphgpl
- Exclusive right: 1900 vphgpl
- Exclusive dual right: 1800 vphgpl
- Exclusive triple left: 1600 vphgpl or less

The traffic modeling and signal timing optimization software package Synchro (Version 10) has been utilized to analyze signalized intersections within the City of Ontario, City of Chino, City of

Chino Hills, City of Eastvale, and City of Jurupa Valley. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Common practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g.  $PHF = [Hourly Volume] / [4 \times Peak\ 15\text{-minute\ Flow\ Rate}]$ ). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (5)

**California Department of Transportation (Caltrans)**

The traffic modeling and signal timing optimization software package Synchro (Version 10) has also been utilized to analyze signalized intersections under Caltrans’ jurisdiction, which include interchange to arterial ramps (i.e., SR-60 Freeway ramps at Euclid Avenue (SR-83), Grove Avenue, and Archibald Avenue, SR-71 Freeway ramps at Edison Avenue, I-15 Freeway ramps at Cantu Galleano Ranch Road and Limonite Avenue, etc.). (2) Euclid Avenue (SR-83) is also under Caltrans jurisdiction and intersections along Euclid Avenue (SR-83) have been evaluated per Caltrans’ guidelines. Signal timing for the freeway arterial-to-ramp intersections and intersections along Euclid Avenue (SR-83) have been obtained from Caltrans District 8 and were utilized for the purposes of this analysis.

**2.2.2 UNSIGNALIZED INTERSECTIONS**

The City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, and City of Jurupa Valley require the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (5) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2).

**TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS**

Description	Average Control Delay Per Vehicle (Seconds)	Level of Service, V/C ≤ 1.0	Level of Service, V/C > 1.0
Little or no delays.	0 to 10.00	A	F
Short traffic delays.	10.01 to 15.00	B	F
Average traffic delays.	15.01 to 25.00	C	F
Long traffic delays.	25.01 to 35.00	D	F
Very long traffic delays.	35.01 to 50.00	E	F
Extreme traffic delays with intersection capacity exceeded.	> 50.00	F	F

Source: HCM (6<sup>th</sup> Edition)



At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Per HCM, the worst individual turning movement (typically on the side-street) is reported for the overall intersection’s delay at cross-street stop-controlled intersections. For all-way stop controlled intersections, LOS is computed for the intersection as a whole.

**2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY**

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or ascertain the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TIA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD). (6)

The signal warrant criteria for Existing study area intersections are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (6) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing traffic conditions. Warrant 3 is appropriate to use for this TIA because it provides specialized warrant criteria for intersections with rural characteristics (e.g. located in communities with populations of less than 10,000 persons or with adjacent major streets operating above 40 miles per hour). For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection.

Future intersections that do not currently exist have been assessed regarding the potential need for new traffic signals based on future average daily traffic (ADT) volumes, using the Caltrans planning level ADT-based signal warrant analysis worksheets.

Traffic signal warrant analyses were performed for the following study area intersection shown on Table 2-3:

**TABLE 2-3: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS**

ID	Intersection Location	Jurisdiction	SBCTA CMP?
22	Campus Av. & Eucalyptus	Chino, Caltrans	No
23	Campus Av. & Merrill Av.	Chino, Caltrans	No
24	Bon View Av. & Edison Av.	Ontario	No
25	Bon View Av. & Eucalyptus Av.	Ontario	No
26	Bon View Av. & Driveway 1 – Future Intersection	Ontario	No
28	Bon View Av. & Merrill Av.	Chino, Ontario	No
30	Driveway 4 & Eucalyptus Av. – Future Intersection	Ontario	No

ID	Intersection Location	Jurisdiction	SBCTA CMP?
33	Driveway 7 & Merrill Av. – Future Intersection	Ontario	No
35	Driveway 9 & Eucalyptus Av. – Future Intersection	Ontario	No
40	Grove Av. & Chino Av.	Ontario	No
41	Grove Av. & Schaefer Av.	Ontario	No
42	Grove Av. & Edison Av.	Ontario	No
43	Grove Av. & Eucalyptus Av.	Ontario	No
45	Grove Av. & Driveway 11 – Future Intersection	Ontario	No
47	Grove Av. & Merrill Av.	Chino, Ontario	No
48	Walker Av. & Edison Av.	Ontario	No
49	Walker Av./Flight Av. & Merrill Av.	Chino, Ontario	No
50	Baker Av./Van Vliet Av. & Merrill Av.	Ontario	No
52	Vineyard Av./Hellman Av. & Merrill Av.	Chino, Ontario	No
54	Carpenter Av. & Merrill Av.	Chino, Ontario	No

Although unsignalized, traffic signal warrants have not been evaluated at the intersections of Driveway 2 on Bon View Avenue, Driveway 3 and Driveway 5 on Merrill Avenue, Driveway 6 and Driveway 8 on Eucalyptus Avenue, and Driveway 10 and Driveway 12 on Grove Avenue since these intersections are anticipated to have restricted access (right-in/right-out only) and would therefore not be suitable locations for installing a traffic signal.

The Existing conditions traffic signal warrant analysis is presented in the subsequent section, Section 3 *Area Conditions* of this report. The traffic signal warrant analyses for future conditions are presented in Section 5 *E+P Traffic Analysis*, Section 6 *Opening Year Cumulative (2024) Traffic Analysis*, and Section 7 *Horizon Year (2040) Traffic Analysis* of this report. It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

## 2.4 FREEWAY OFF-RAMP QUEUING ANALYSIS

The study area for this TA includes the following freeway-to-arterial interchanges:

- SR-71 Freeway & Grand Avenue/Edison Avenue
- SR-71 Freeway & Euclid Avenue (SR-83)
- Euclid Avenue (SR-83) & SR-60 Freeway
- Grove Avenue & SR-60 Freeway
- Archibald Avenue & SR-60 Freeway
- I-15 Freeway & Cantu Galleano Ranch Road
- I-15 Freeway & Limonite Avenue

The 95<sup>th</sup> percentile queuing of vehicles has been assessed at the off-ramps to determine potential queuing deficiencies at the freeway ramp intersections at the interchanges identified above. Specifically, the queuing analysis is utilized to identify any potential queuing and “spill back” onto the SR-71, SR-60, or I-15 Freeway mainline from the off-ramps.

The traffic progression analysis tool and HCM intersection analysis program, Synchro, has been used to assess the potential deficiencies/needs of the intersections with traffic added from the proposed Project. Storage (turn-pocket) length recommendations at the ramps have been based upon the 95<sup>th</sup> percentile queue resulting from the Synchro progression analysis. There are two footnotes which appear on the Synchro outputs. One footnote indicates if the 95<sup>th</sup> percentile cycle exceeds capacity. Traffic is simulated for two complete cycles of the 95<sup>th</sup> percentile traffic in Synchro in order to account for the effects of spillover between cycles. In practice, the 95<sup>th</sup> percentile queue shown will rarely be exceeded and the queues shown with the footnote are acceptable for the design of storage bays. The other footnote indicates whether or not the volume for the 95<sup>th</sup> percentile queue is metered by an upstream signal. In many cases, the 95<sup>th</sup> percentile queue will not be experienced and may potentially be less than the 50<sup>th</sup> percentile queue due to upstream metering. If the upstream intersection is at or near capacity, the 50<sup>th</sup> percentile queue represents the maximum queue experienced.

A vehicle is considered queued whenever it is traveling at less than 10 feet/second. A vehicle will only become queued when it is either at the stop bar or behind another queued vehicle. The 95<sup>th</sup> percentile queue is the maximum back of queue with 95<sup>th</sup> percentile traffic volumes during the peak hour and is derived from the average queue plus 1.65 standard deviations. The queue length reported is for the lane with the highest queue in the lane group. The 95<sup>th</sup> percentile queue is not necessarily ever observed it is simply based on statistical calculations.

## **2.5 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)**

Minimum Acceptable LOS and associated definitions of intersection deficiencies has been obtained from each of the applicable surrounding jurisdictions.

### **2.5.1 CITY OF ONTARIO**

Per the Ontario Plan’s Policy M-1, the City of Ontario utilizes a minimum acceptable LOS of LOS E, where feasible. (7)

### **2.5.2 CITY OF CHINO HILLS**

The Traffic Impact Study Guidelines for Development Projects in the City of Chino Hills (dated October 15, 2001) indicates LOS D shall be the minimum acceptable LOS to be used for all City of Chino Hills roadways and intersections. Therefore, any intersection operating at LOS E or LOS F will be considered deficient. (8)

### **2.5.3 CITY OF CHINO**

According to the City of Chino's General Plan Objective TRA-1.2/Policy P1, LOS D is the minimum acceptable condition that should be maintained during the peak commute hours, where feasible. (9)

### **2.5.4 CITY OF EASTVALE**

The City of Eastvale General Plan Policy C-10 sets a standard of LOS C with LOS D as acceptable in commercial and employment areas and at intersections of any combination of major highways, urban arterials, secondary highways, or freeway ramps. (10) Based on this criterion, where feasible, LOS D is the minimum acceptable LOS at each of the study intersections within the City of Eastvale.

### **2.5.5 CITY OF JURUPA VALLEY**

Per the City of Jurupa Valley's General Plan Policy ME 1.1, the City of Jurupa Valley utilizes a minimum acceptable LOS of LOS D at all intersections, except where flexibility is warranted based on a multi-modal LOS evaluation, or where LOS E is deemed appropriate to accommodate complete streets/multi-modal facilities. (11)

### **2.5.6 CMP**

The CMP definition of deficiency is based on maintaining a level of service standard of LOS E or better, where feasible, except where an existing LOS F condition is identified in the CMP document. However, in an effort to overstate as opposed to understate potential deficiencies, LOS D has been utilized for the CMP intersections for the purposes of this analysis, unless the intersection is located in the City of Ontario (which uses LOS E). (1)

### **2.5.7 CALTRANS**

Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D on State Highway System (SHS) facilities, however, Caltrans acknowledges that this may not always be feasible and recommends that the lead agency consult with Caltrans to determine the appropriate target LOS. (2) If an existing State highway facility is operating at less than this target LOS, the existing LOS should be maintained. In general, the region-wide goal for an acceptable LOS on all freeways and intersections is LOS D. Consistent with the City of Ontario LOS threshold of LOS D and in excess of the City of Ontario stated LOS threshold of LOS E, LOS D will be used as the target LOS.

## 2.6 DEFICIENCY CRITERIA

To determine whether the addition of project traffic at a study intersection would result in a traffic deficiency, the following will be utilized:

- When the Without Project condition is at or better than LOS D (or LOS E for CMP intersections and intersections located in the City of Ontario) (i.e., acceptable LOS), and project-generated traffic causes deterioration below LOS D/LOS E (i.e., unacceptable LOS), a deficiency is deemed to occur.

When the Without Project condition is already below LOS D/LOS E (i.e., unacceptable LOS), the Project will be responsible for improving its deficiency to acceptable levels of service. Thus, for intersections operating at unacceptable LOS during either the AM and/or PM peak hour, improvements have been identified to improve the deficiencies of the Project to an intersection LOS that is equal to or better than Without Project conditions (see Table 2-6).

The Project’s contribution to a deficiency can be reduced if the Project is required to implement or fund its fair share of improvements designed to alleviate its contribution to the deficient condition.

**TABLE 2-6: DEFICIENCY CRITERIA**

Without Project Level of Service	Level of Service	Deficient?	Improvement Required?
<b>City of Ontario</b>			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D-E	No	No
E	E	No	No
A-E	F	Yes	Yes, bring LOS to E or better
F	F	Yes	Yes, bring LOS to E or better
<b>City of Chino, City of Eastvale, City of Chino Hills, City of Jurupa Valley</b>			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D	No	No
A-D	E or F	Yes	Yes, bring LOS to D or better
E	E	Yes	Yes, bring LOS to D or better
E	F	Yes	Yes, bring LOS to D or better
F	F	Yes	Yes, bring LOS to D or better

In the event that an intersection is operating at or is forecast to operate at a deficient LOS, the CMP guidelines have defined a series of steps to be completed to determine the Project's contribution to the deficiency of intersections, which has been applied to both CMP and non-CMP study area intersections. The steps are as follows:

- Determine the improvements necessary to achieve an acceptable service level,
- Calculate the Project's share in the future traffic volume projections for the peak hours,
- Estimate the cost to implement recommended improvements, and
- Calculate the Project's fair-share contribution to improve the Project's traffic deficiencies

## 2.7 PROJECT FAIR SHARE CALCULATION METHODOLOGY

In cases where this TA identifies that the Project would contribute additional traffic volumes to traffic deficiencies, Project fair share costs of improvements necessary to address deficiencies have been identified. The Project's fair share cost of improvements is determined based on the following equation, which is the ratio of Project traffic to new traffic, and new traffic is total future (Horizon Year) traffic less existing baseline traffic:

$$\text{Project Fair Share \%} = \frac{\text{Project (2040) AM/PM Traffic}}{\text{(2040 With Project AM/PM Total Traffic - Existing AM/PM Traffic)}}$$

The project fair share percentage has been calculated for both the AM peak hour and PM peak hour and the highest of the two has been selected. The Project fair share contribution calculations are presented in Section 8 *Local and Regional Funding Mechanisms* of this TIA. The cost of implementing the improvements shown on Table 1-2 have been estimated based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a total cost escalation factor of 1.568 to more closely approximate current (2021) costs. These cost estimates have been utilized in conjunction with the Project fair share percentages to determine the Project's fair share cost of the recommended improvements (see Table 8-2). These estimates are a rough order of magnitude only as they are intended only for discussion purposes and do not imply any legal responsibility or formula for contributions or physical improvements.

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### 3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Ontario General Plan Circulation Network, and a review of existing peak hour intersection operations, off-ramp queueing, and traffic signal warrant analyses.

#### 3.1 EXISTING CIRCULATION NETWORK

Pursuant to the agreement with City of Ontario staff (Appendix 1.1), the study area includes a total of 75 existing and future intersections as shown previously on Exhibit 1-2. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

#### 3.2 CITY OF ONTARIO GENERAL PLAN CIRCULATION ELEMENT

As noted previously, the Project site is located within the City of Ontario. The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the study area, as identified on the City of Ontario General Plan Circulation Element, are described subsequently. Exhibit 3-2 shows the City of Ontario General Plan Circulation Element and Exhibit 3-3 illustrates the City of Ontario General Plan roadway cross-sections.

The study area roadways that are classified as 8-lane Other Principal Arterials are identified as having four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 8-lane Other Principal Arterials:

- Euclid Avenue (SR-83) from the SR-60 Freeway to Merrill Avenue
- Edison Avenue/Ontario Ranch Road from Euclid Avenue (SR-83) to Hamner Avenue
- Hamner Avenue from the SR-60 Freeway to Bellegrave Avenue

The study area roadways that are classified as 6-lane Other Principal Arterials are identified as having three lanes of travel in each direction and a 14-foot curbed or painted median. The following study area roadways within the City of Ontario are classified as 6-lane Other Principal Arterials:

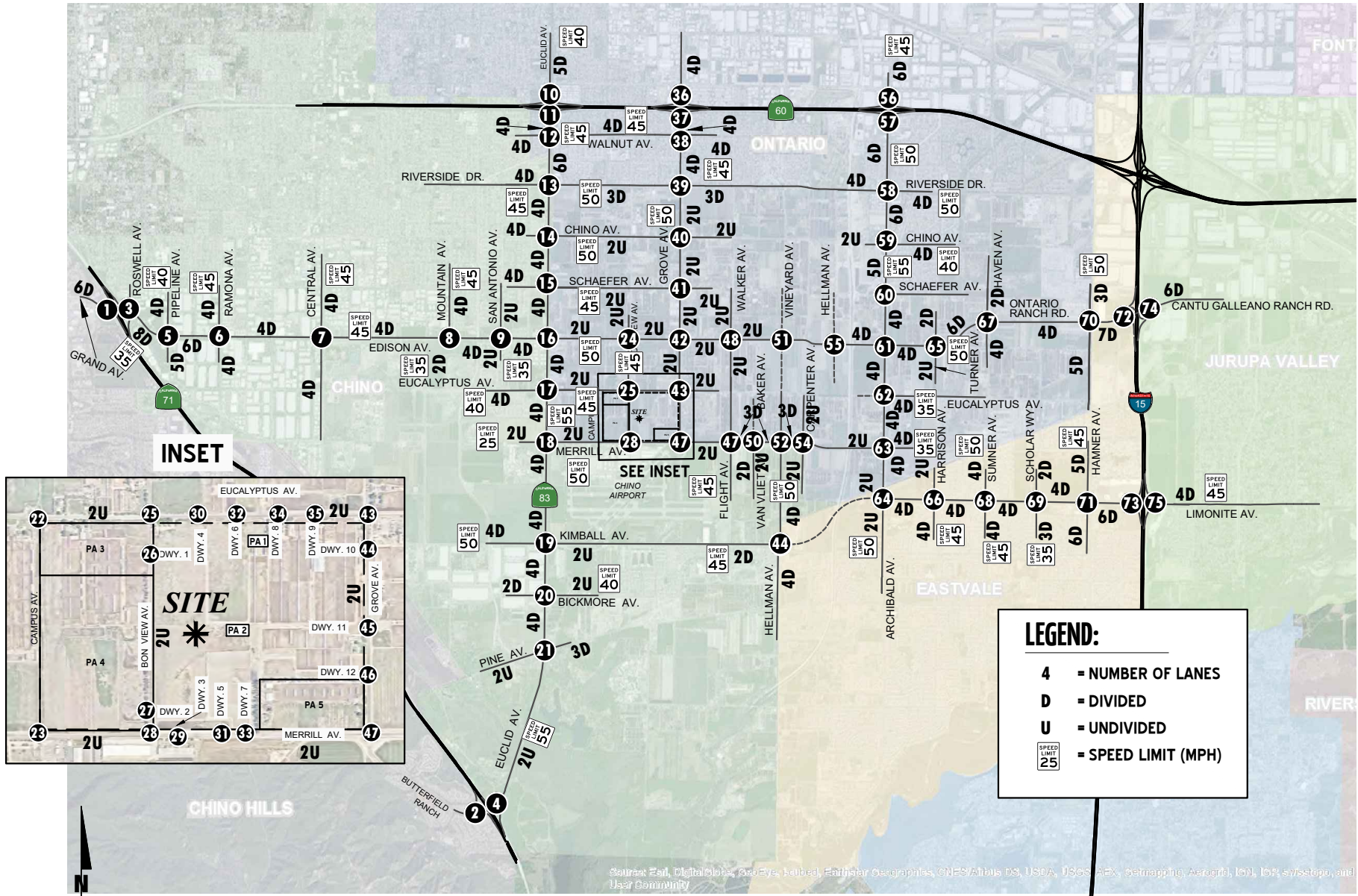
- Grove Avenue north of Riverside Drive
- Vineyard Avenue from the SR-60 Freeway to Merrill Avenue
- Archibald Avenue north of Bellegrave Avenue

The study area roadways that are classified as 4-lane Other Principal Arterials are identified as having two lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 4-lane Other Principal Arterials:

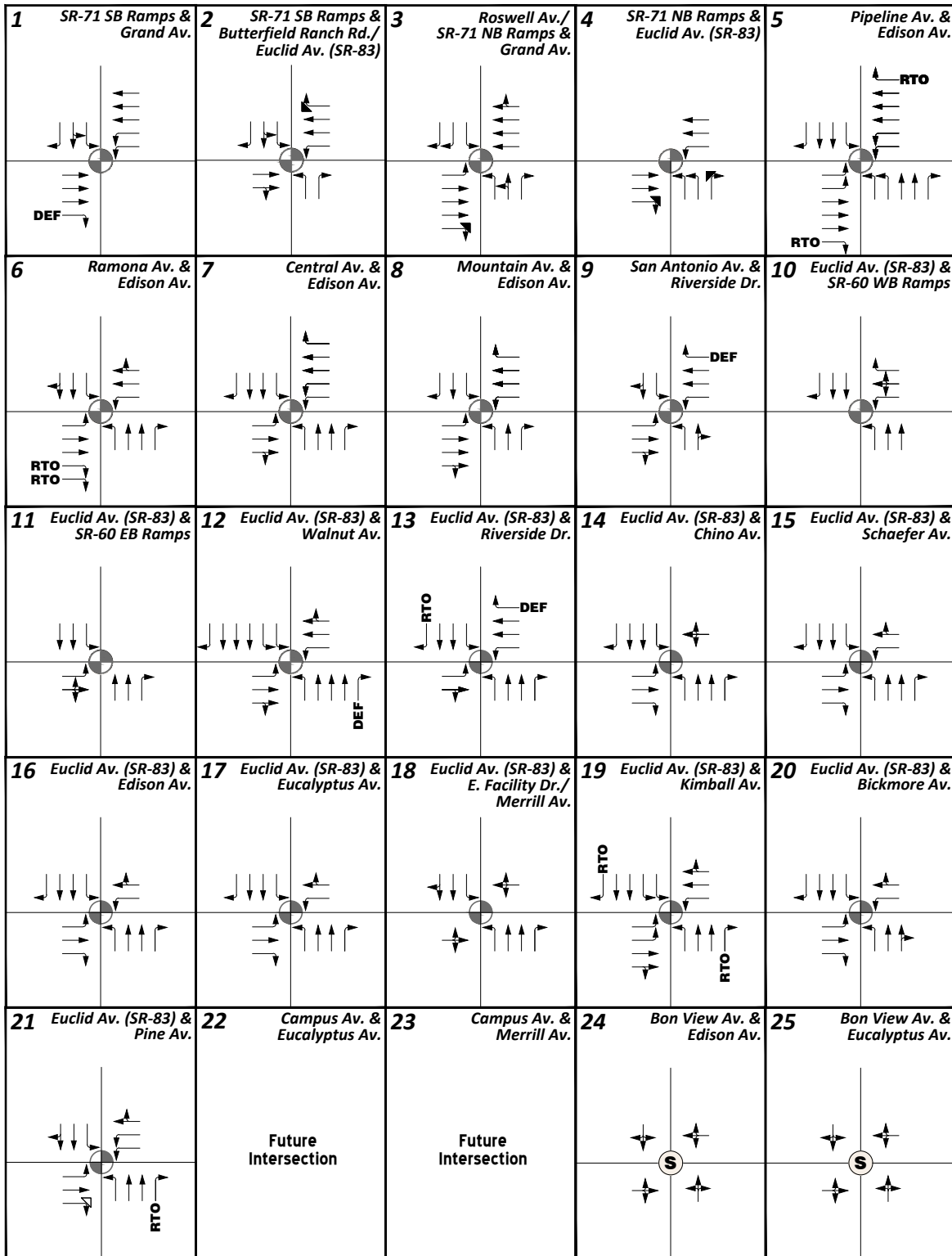
- Grove Avenue north of Merrill Avenue
- Haven Avenue from Riverside Drive to Bellegrave Avenue









**EXHIBIT 3-1 (1OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS**



**EXHIBIT 3-1 (2of4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS**

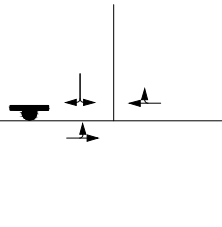
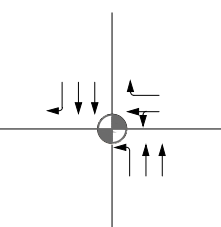
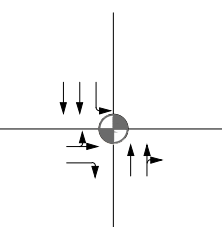
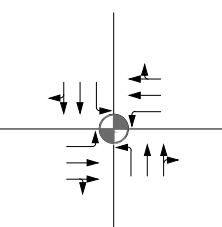
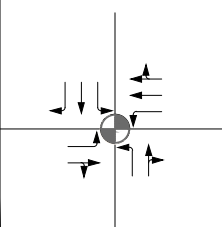
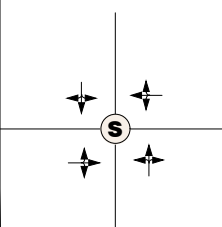
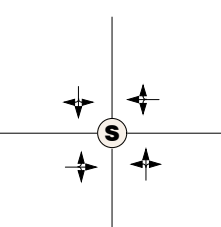
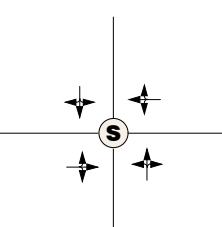
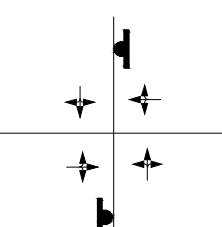
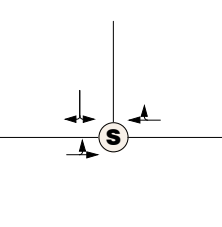
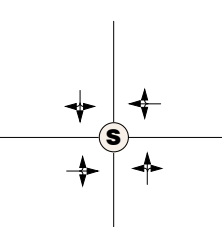
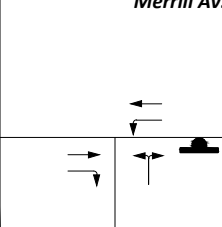
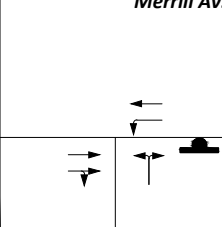


**LEGEND:**




-  = TRAFFIC SIGNAL
-  = ALL WAY STOP
-  = FREE RIGHT TURN
-  = CHANNELIZED YIELD
-  = RTO = RIGHT TURN OVERLAP
-  = DEF = DEFACTO RIGHT TURN



**EXHIBIT 3-1 (3OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS**

<p><b>26</b> <i>Bon View Av. &amp; Dwy. 1</i></p> <p>Future Intersection</p>	<p><b>27</b> <i>Bon View Av. &amp; Dwy. 2</i></p> <p>Future Intersection</p>	<p><b>28</b> <i>Bon View Av. &amp; Merrill Av.</i></p> 	<p><b>29</b> <i>Dwy. 3 &amp; Merrill Av.</i></p> <p>Future Intersection</p>	<p><b>30</b> <i>Dwy. 4 &amp; Eucalyptus Av.</i></p> <p>Future Intersection</p>
<p><b>31</b> <i>Dwy. 5 &amp; Merrill Av.</i></p> <p>Future Intersection</p>	<p><b>32</b> <i>Dwy. 6 &amp; Eucalyptus Av.</i></p> <p>Future Intersection</p>	<p><b>33</b> <i>Dwy. 7 &amp; Merrill Av.</i></p> <p>Future Intersection</p>	<p><b>34</b> <i>Dwy. 8 &amp; Eucalyptus Av.</i></p> <p>Future Intersection</p>	<p><b>35</b> <i>Dwy. 9 &amp; Eucalyptus Av.</i></p> <p>Future Intersection</p>
<p><b>36</b> <i>Grove Av. &amp; SR-60 WB Ramps</i></p> 	<p><b>37</b> <i>Grove Av. &amp; SR-60 EB Ramps</i></p> 	<p><b>38</b> <i>Grove Av. &amp; Walnut Av.</i></p> 	<p><b>39</b> <i>Grove Av. &amp; Riverside Dr.</i></p> 	<p><b>40</b> <i>Grove Av. &amp; Chino Av.</i></p> 
<p><b>41</b> <i>Grove Av. &amp; Schaefer Av.</i></p> 	<p><b>42</b> <i>Grove Av. &amp; Edison Av.</i></p> 	<p><b>43</b> <i>Grove Av. &amp; Eucalyptus Av.</i></p> 	<p><b>44</b> <i>Grove Av. &amp; Dwy. 10</i></p> <p>Future Intersection</p>	<p><b>45</b> <i>Grove Av. &amp; Dwy. 11</i></p> <p>Future Intersection</p>
<p><b>46</b> <i>Grove Av. &amp; Dwy. 12</i></p> <p>Future Intersection</p>	<p><b>47</b> <i>Grove Av. &amp; Merrill Av.</i></p> 	<p><b>48</b> <i>Walker Av. &amp; Edison Av.</i></p> 	<p><b>49</b> <i>Walker Av./ Flight Av. &amp; Merrill Av.</i></p> 	<p><b>50</b> <i>Baker Av./ Van Vliet Av. &amp; Merrill Av.</i></p> 

**LEGEND:**

-  = TRAFFIC SIGNAL
-  = ALL WAY STOP
-  = STOP SIGN



**EXHIBIT 3-1 (4of4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>Future Intersection</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>Future Intersection</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>Future Intersection</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p>

**LEGEND:**


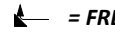

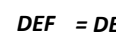

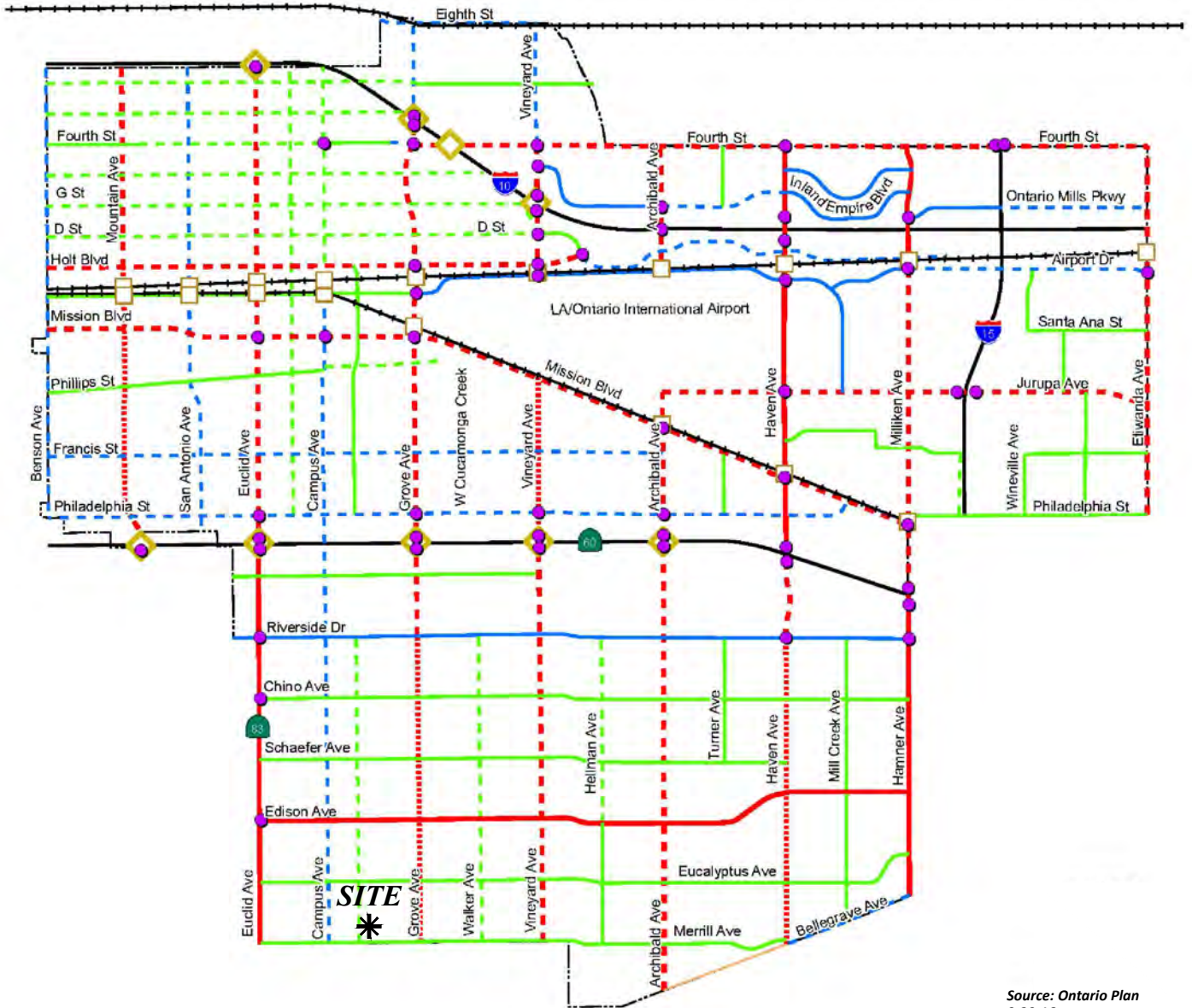
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-  = FREE RIGHT TURN
-  = STOP SIGN
-  DEF = DEFACTO RIGHT TURN
-  RTO = RIGHT TURN OVERLAP



EXHIBIT 3-2: CITY OF ONTARIO GENERAL PLAN CIRCULATION ELEMENT

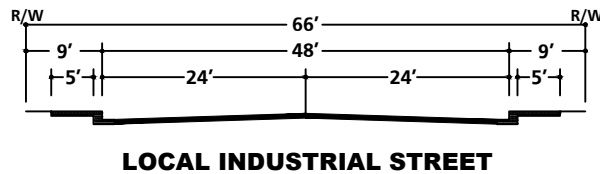
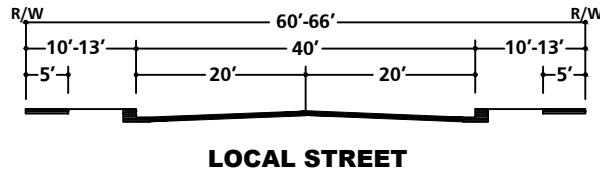
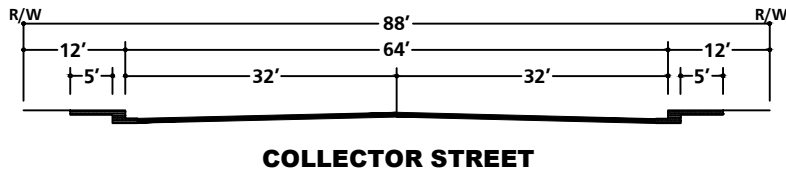
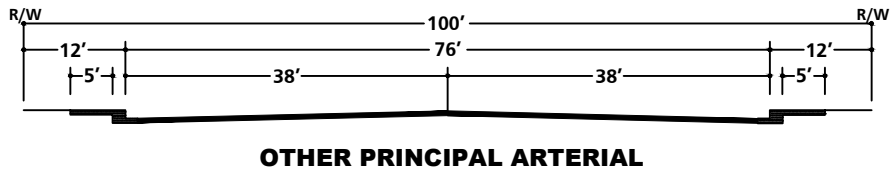
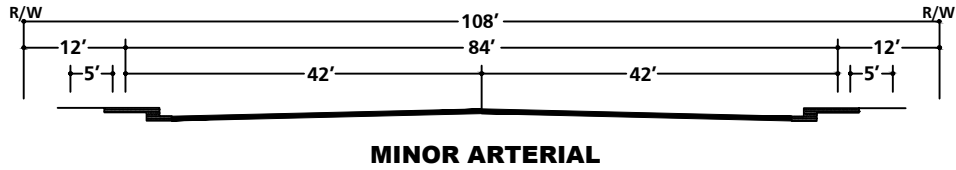
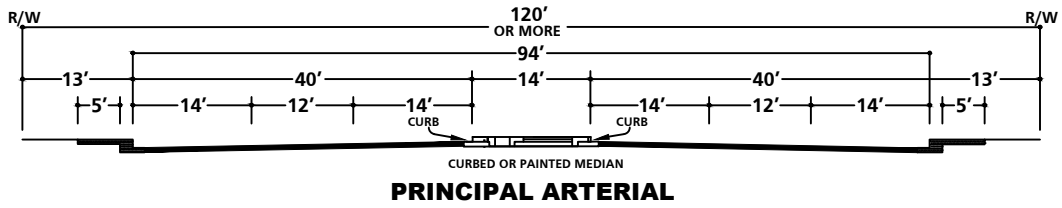


Source: Ontario Plan 9-20-16

- |                          |                                  |
|--------------------------|----------------------------------|
| Other Principal Arterial | — Freeways                       |
| — 8 Lanes                | — Railroads                      |
| - - - 6 Lanes            | ◆ Freeway Interchange            |
| ⋯ 4 Lanes                | □ Grade-Separated Rail Crossings |
| Minor Arterial           | ● Enhanced Intersections         |
| — 6 Lanes                |                                  |
| - - - 4 Lanes            |                                  |
| Collector Street         |                                  |
| — 4 Lanes                |                                  |
| - - - 2 Lanes            |                                  |



**EXHIBIT 3-3: CITY OF ONTARIO GENERAL PLAN ROADWAY CROSS-SECTIONS**



SOURCE: CITY OF ONTARIO

The study area roadway that is classified as a 6-lane Minor Arterial is identified as having three lanes of travel in each direction. The following study area roadway within the City of Ontario is classified as a 6-lane Minor Arterial:

- Riverside Drive

The study area roadway that is classified as a 4-lane Minor Arterial is identified as having two lanes of travel in each direction and a 14-foot median. The following study area roadway within the City of Ontario is classified as a 4-lane Minor Arterial:

- Bellegrave Avenue from Haven Avenue to Hamner Avenue

The study area roadways that are classified as Collector Streets are identified as having two to four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as Collector Streets:

- Walnut Street
- Chino Avenue
- Schaefer Avenue
- Eucalyptus Avenue
- Merrill Avenue
- Bon View Avenue
- Walker Avenue
- Hellman Avenue
- Turner Avenue

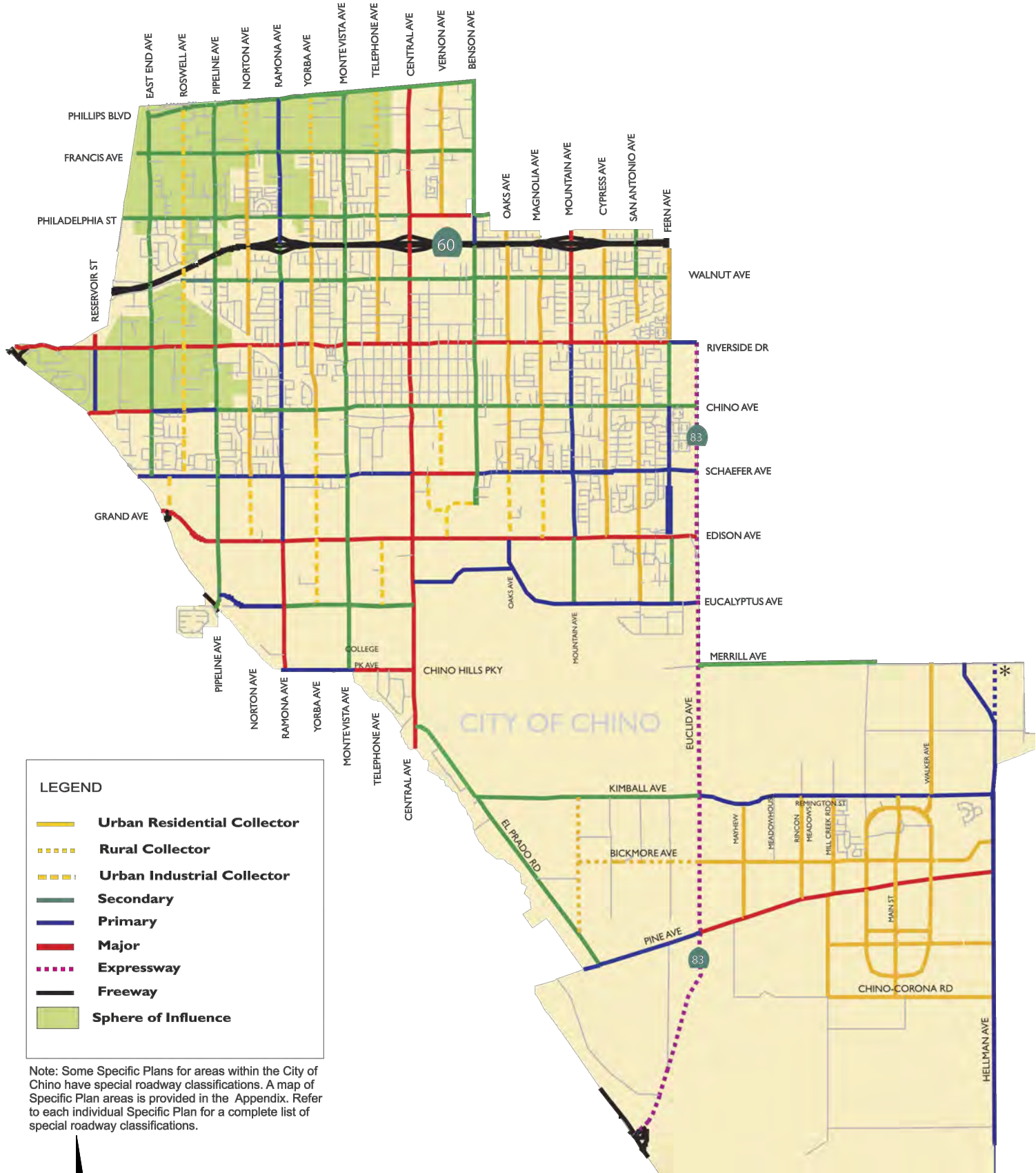
### **3.3 CITY OF CHINO, CITY OF CHINO HILLS, CITY OF EASTVALE, CITY OF JURUPA VALLEY GENERAL PLAN CIRCULATION ELEMENT**

Exhibits 3-4 and 3-5 show the City of Chino General Plan Circulation Element and roadway cross-sections, respectively. Exhibits 3-6 and 3-7 show the City of Chino Hills General Plan Circulation Element and roadway cross-sections, respectively. Exhibits 3-8 and 3-9 show the City of Eastvale General Plan Circulation Element and roadway cross-sections, respectively. Lastly, Exhibits 3-10 and 3-11 show the City of Jurupa Valley General Plan Circulation Element and roadway cross-sections, respectively.

### **3.4 TRUCK ROUTES**

The City of Ontario designated truck route map is shown on Exhibit 3-12. Euclid Avenue (SR-83), Edison Avenue/Ontario Ranch Road, Merrill Avenue, Archibald Avenue, and Hamner Avenue/Milliken Avenue are designated as Truck Routes in the City of Ontario. The designated truck route map has been utilized to route truck traffic for the proposed Project and cumulative development projects throughout the study area.

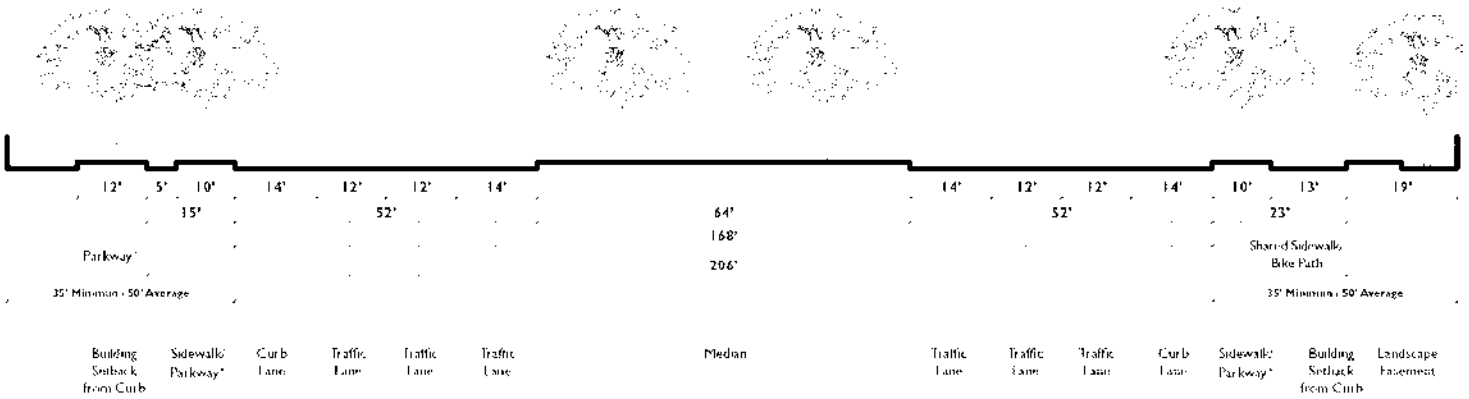
**EXHIBIT 3-4: CITY OF CHINO GENERAL PLAN CIRCULATION ELEMENT**





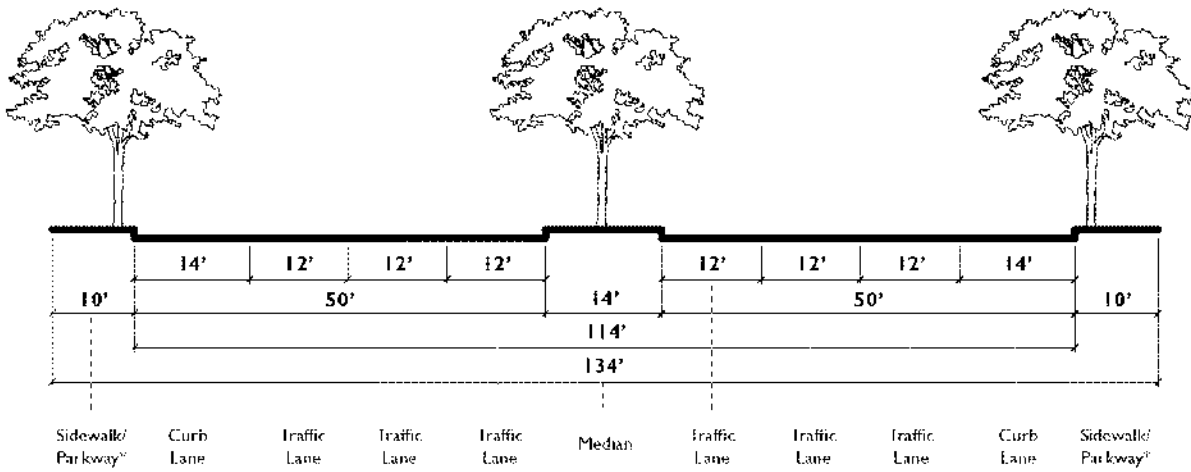
**EXHIBIT 3-5 (1 of 2): CITY OF CHINO GENERAL PLAN ROADWAY CROSS-SECTIONS**

**Major Arterial (Expressway): Typical 8 Lane**  
 Provides 8 traffic lanes and a wide median without parking



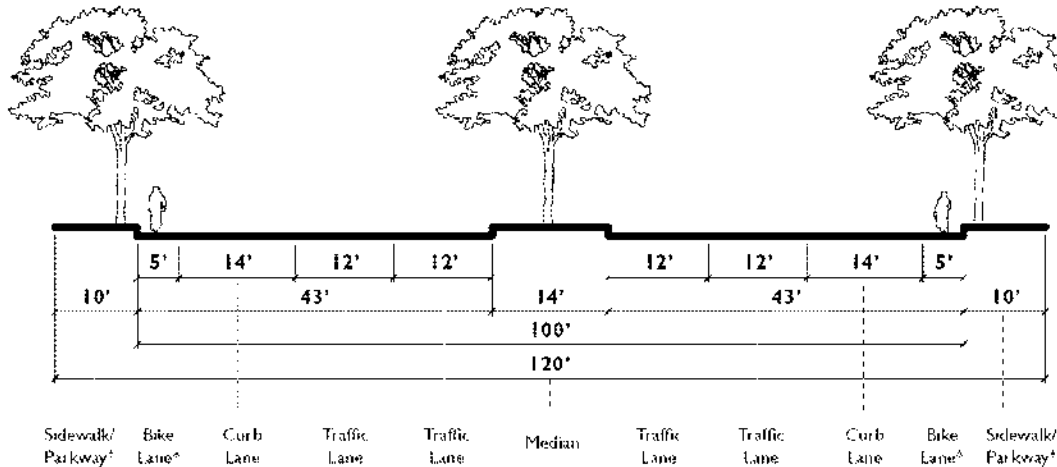
**Major Arterial: Minimum 8 Lane**

Provides 8 traffic lanes and 2 bicycle lanes separated by a median without parking



**Major Arterial: Minimum 6 Lane**

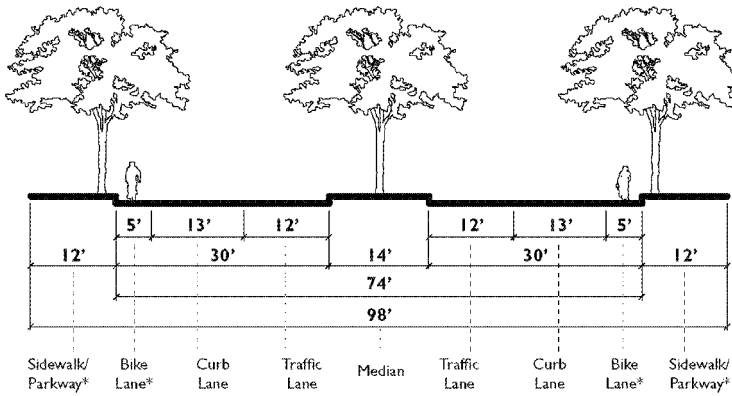
Provides 6 traffic lanes and 2 bicycle lanes separated by a median without parking



**EXHIBIT 3-5 (2 of 2): CITY OF CHINO GENERAL PLAN ROADWAY CROSS-SECTIONS**

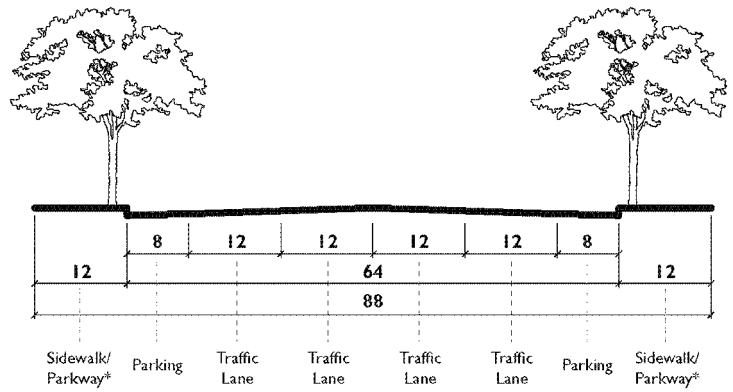
**Primary Arterial: Typical 4 Lane**

Provides 4 traffic lanes and 2 bicycle lanes separated by a median without parking



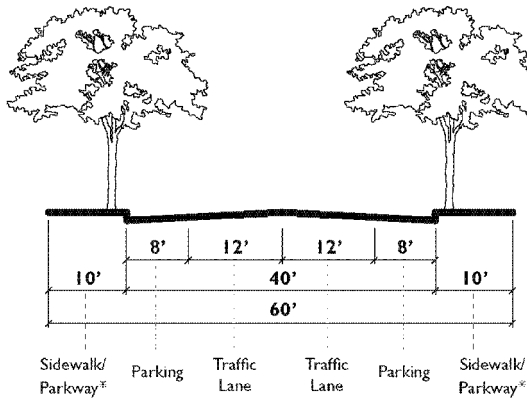
**Secondary Arterial**

Provides 4 traffic lanes with parking



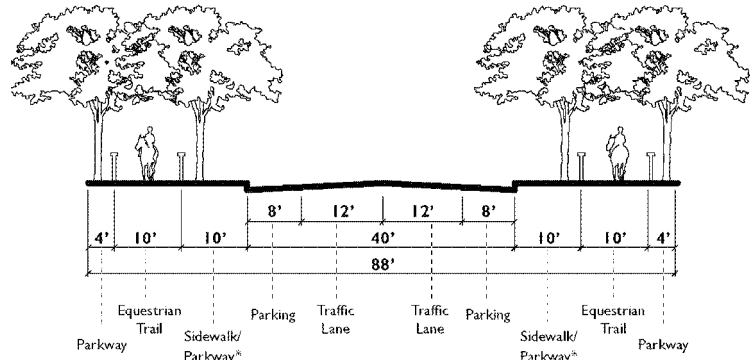
**Urban Residential/Rural Collector**

Provides 2 traffic lanes with parking and shared bicycle access



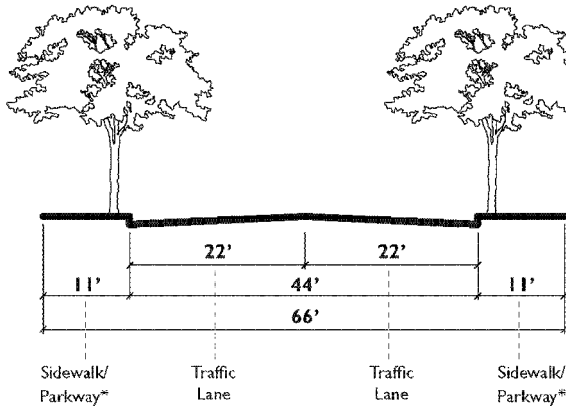
**Urban Residential/Rural Collector with Equestrian Trails**

Provides 2 traffic lanes and 2 equestrian trails with parking and shared bicycle access



**Urban Industrial Collector**

Provides 2 traffic lanes



**Local Street**

Provides 2 traffic lanes

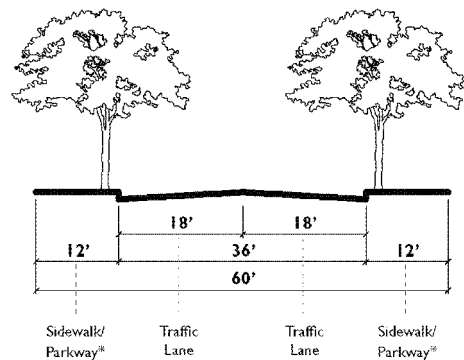
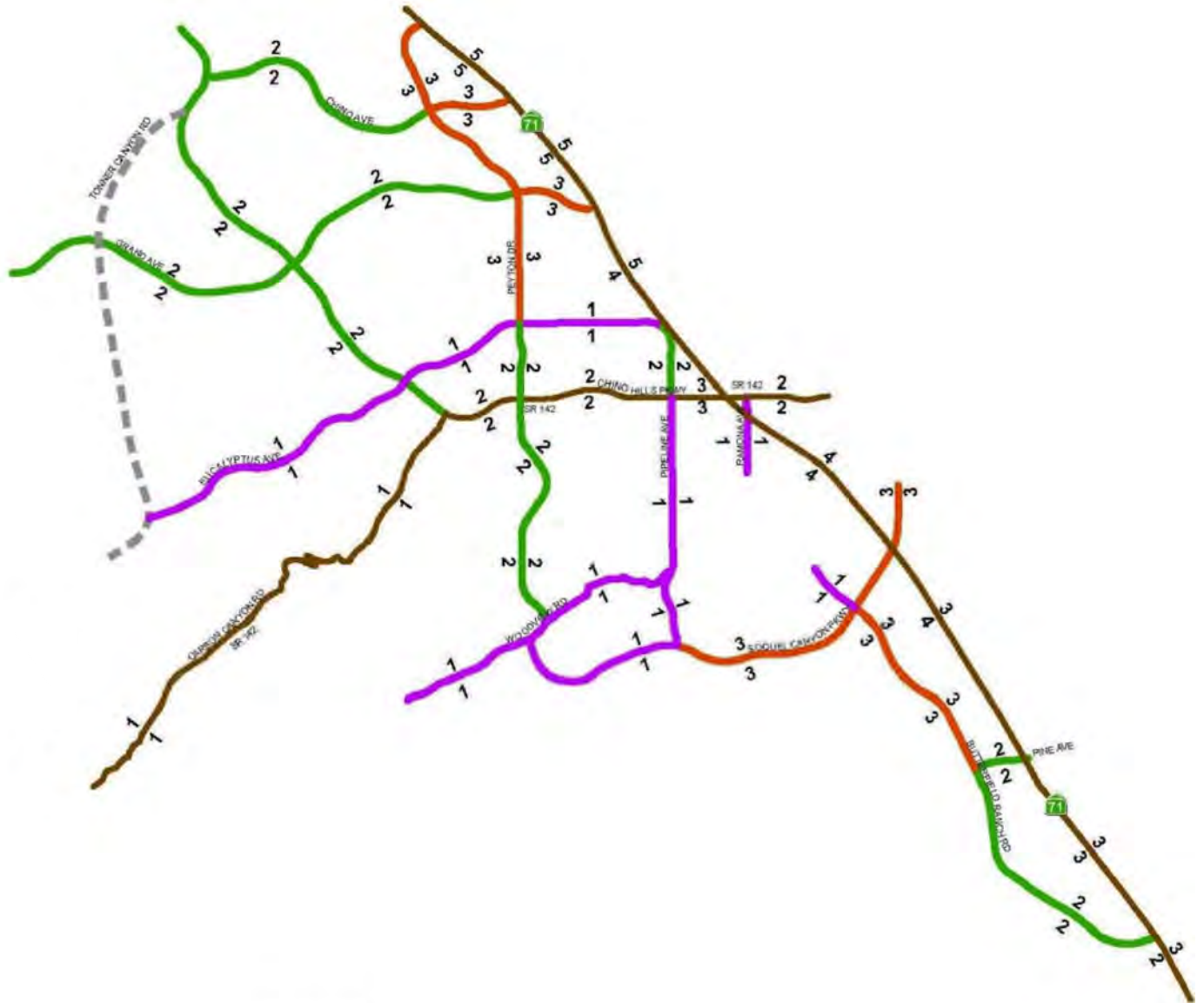


EXHIBIT 3-6: CITY OF CHINO HILLS GENERAL PLAN ROADWAY SEGMENTS

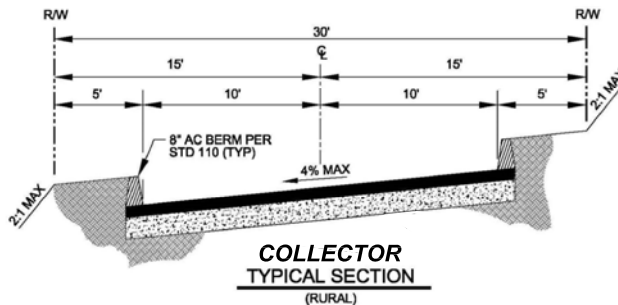
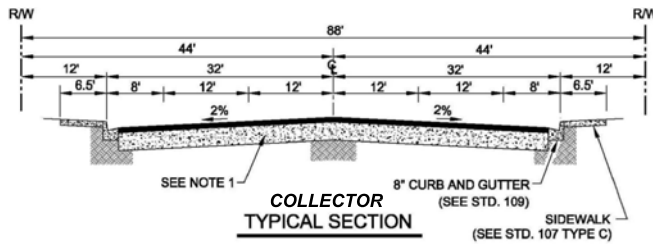
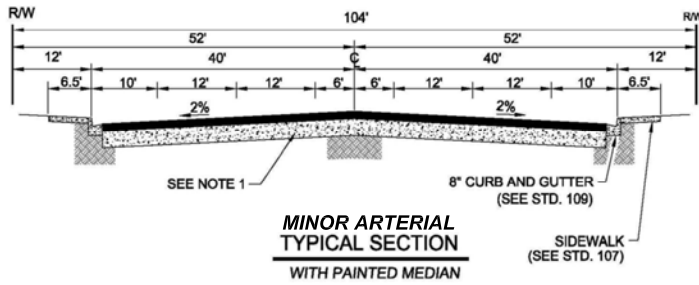
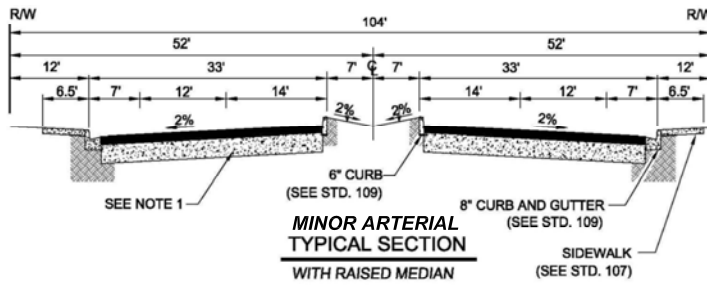
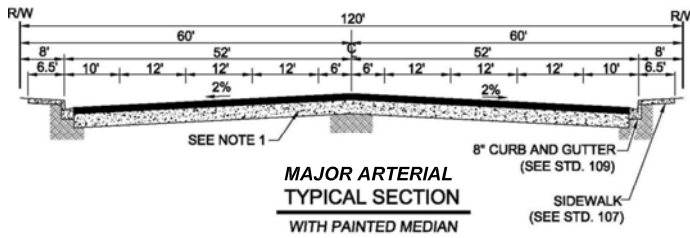
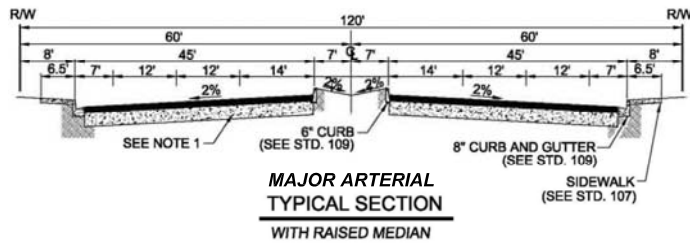


Legend

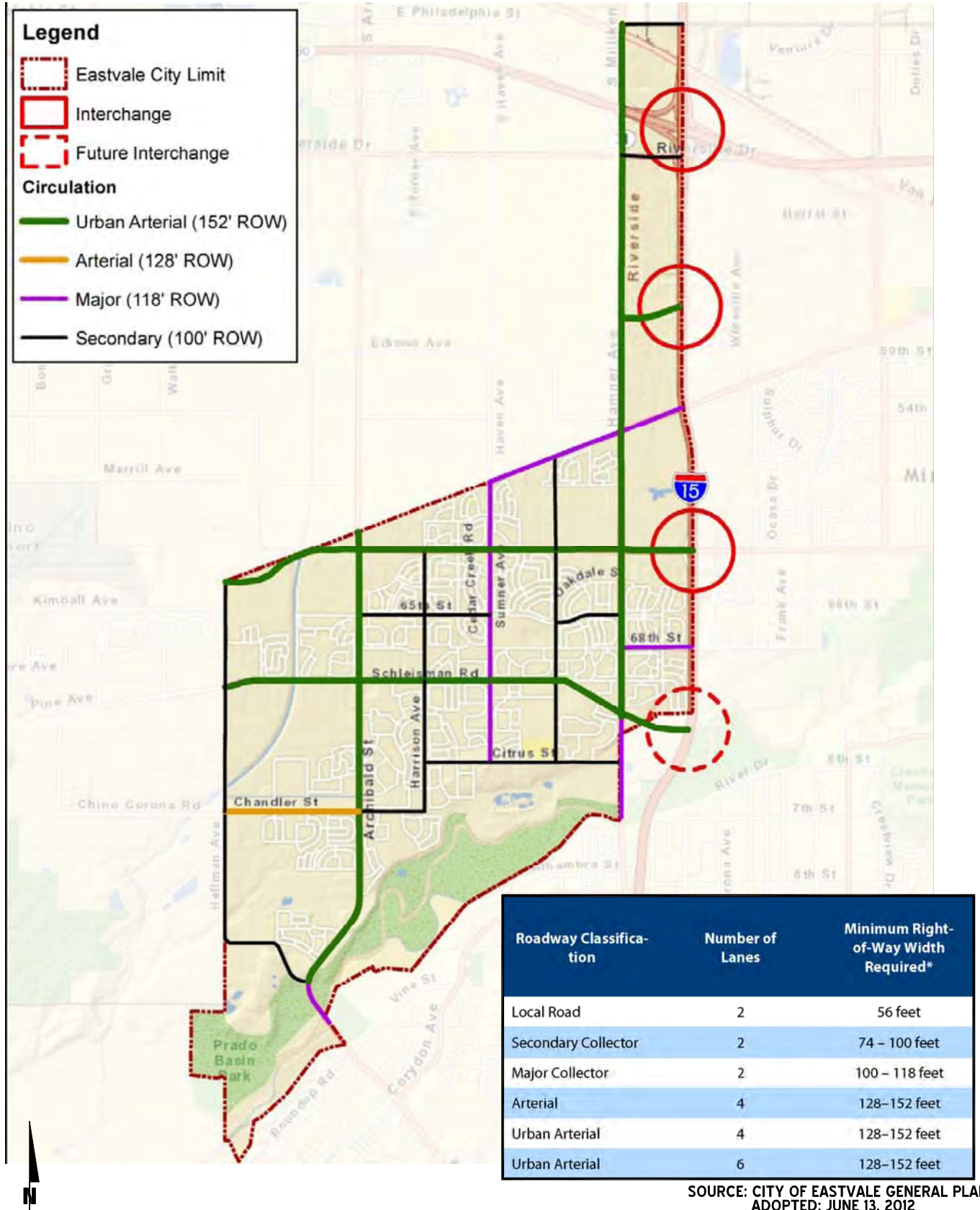
- CORRIDOR (EXACT ALIGNMENT AND SIZE TO BE DETERMINED)
- STATE ROUTE
- PRINCIPAL ARTERIAL
- MINOR ARTERIAL
- COLLECTOR
- $\frac{3}{3}$  NUMBER OF LANES



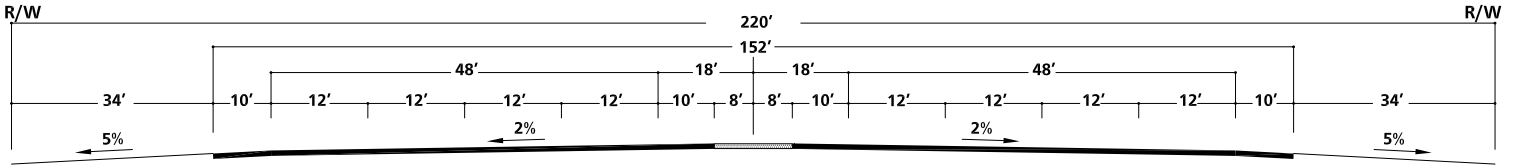
**EXHIBIT 3-7: CITY OF CHINO HILLS GENERAL PLAN ROADWAY CROSS-SECTIONS**



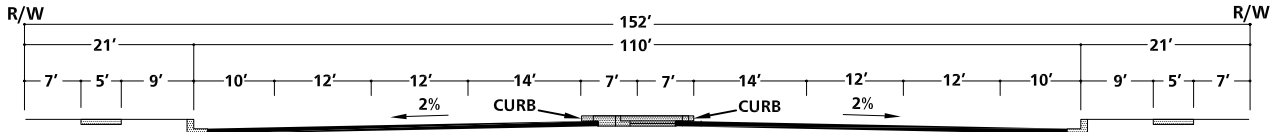
**EXHIBIT 3-8: CITY OF EASTVALE GENERAL PLAN CIRCULATION ELEMENT**



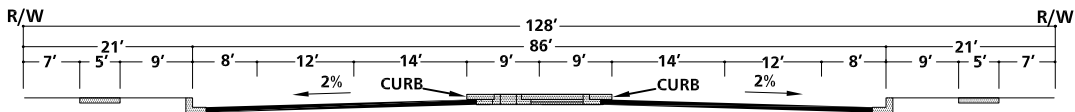
**EXHIBIT 3-9: CITY OF EASTVALE GENERAL PLAN ROADWAY CROSS-SECTIONS**



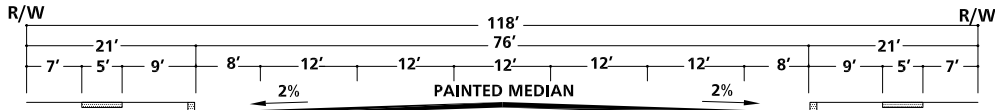
**EXPRESSWAY - 8 LANES**



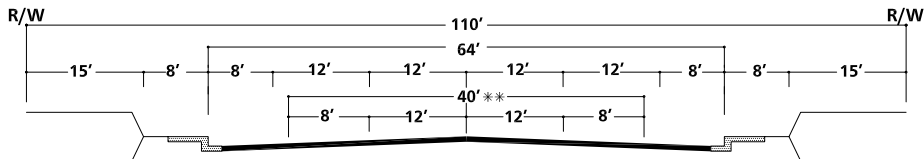
**CURBED MEDIAN  
URBAN ARTERIAL HIGHWAY \***



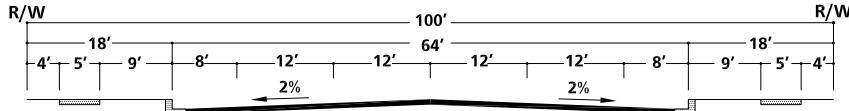
**CURBED MEDIAN  
ARTERIAL HIGHWAY \***



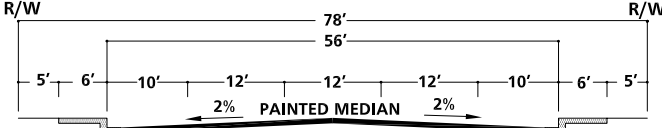
**PAINTED MEDIAN  
MAJOR HIGHWAY - 4 LANES**



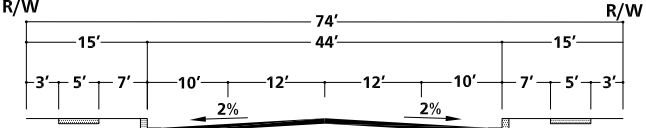
**MOUNTAIN ARTERIAL - 2 TO 4 LANES  
\*\* 2 LANE SECTION**



**SECONDARY HIGHWAY**



**INDUSTRIAL COLLECTOR**



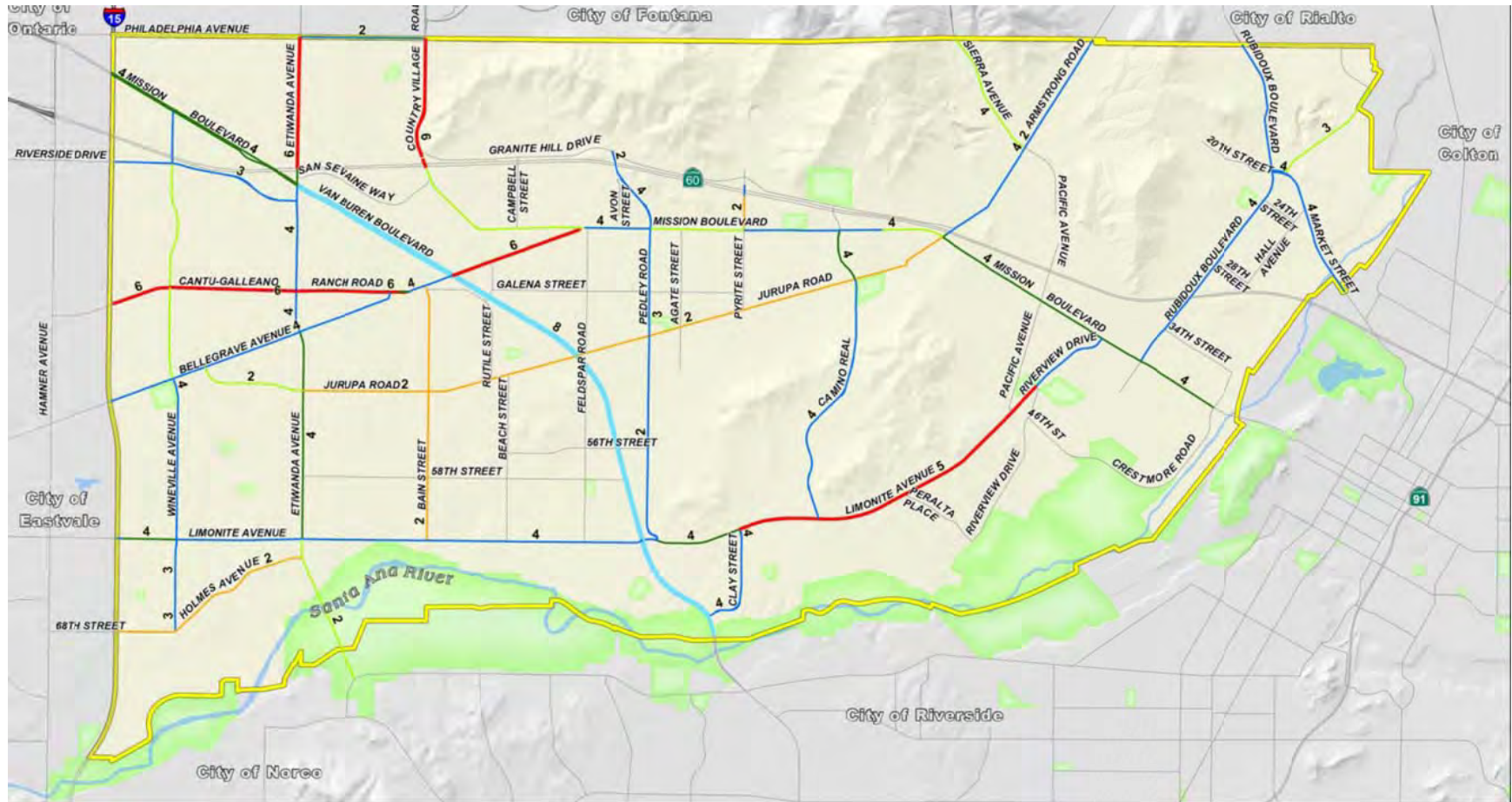
**COLLECTOR**

\* IMPROVEMENTS MAY BE RECONFIGURED TO ACCOMMODATE EXCLUSIVE TRANSIT LANES OR ALTERNATIVE LANE ARRANGEMENTS ADDITIONAL RIGHT OF WAY MAY BE REQUIRED AT INTERSECTIONS TO ACCOMMODATE ULTIMATE IMPROVEMENTS FOR STATE HIGHWAYS SHALL CONFORM TO CALTRANS DESIGN STANDARDS.

NOT TO SCALE



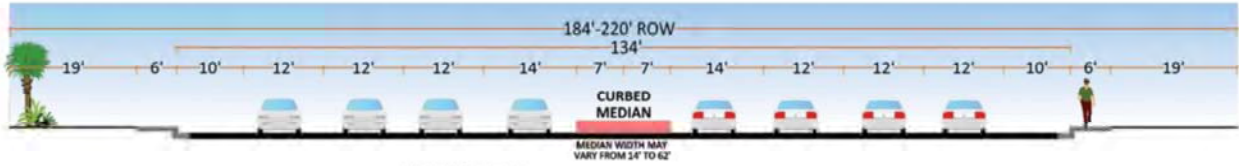
EXHIBIT 3-10: CITY OF JURUPA VALLEY CIRCULATION ELEMENT



- City of Jurupa Valley
- Parks
- Expressway (Up to 220' ROW)
- Urban Arterial (Up to 152' ROW)
- Arterial (Up to 128' ROW)
- Major (Up to 118' ROW)
- Secondary (Up to 100' ROW)
- Collector (Up to 74' ROW)
- Local
- 4** Number of Lanes  
"3" lanes refers to two travel lanes plus a dedicated turn lane



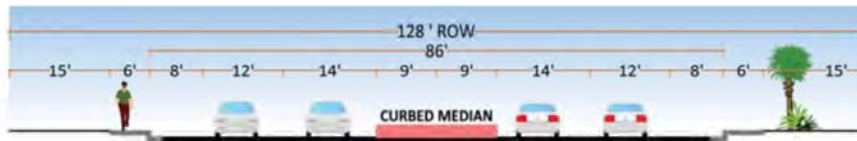
**EXHIBIT 3-11: CITY OF JURUPA VALLEY GENERAL PLAN ROADWAY CROSS-SECTIONS**



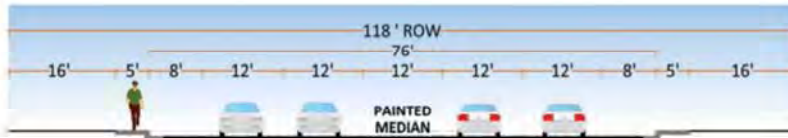
**EXHIBIT 1: EXPRESSWAY- 6 TO 8 LANES**



**EXHIBIT 2: URBAN ARTERIAL**



**EXHIBIT 3: ARTERIAL**



**EXHIBIT 4: MAJOR - 4 LANES**



**EXHIBIT 5: SECONDARY**



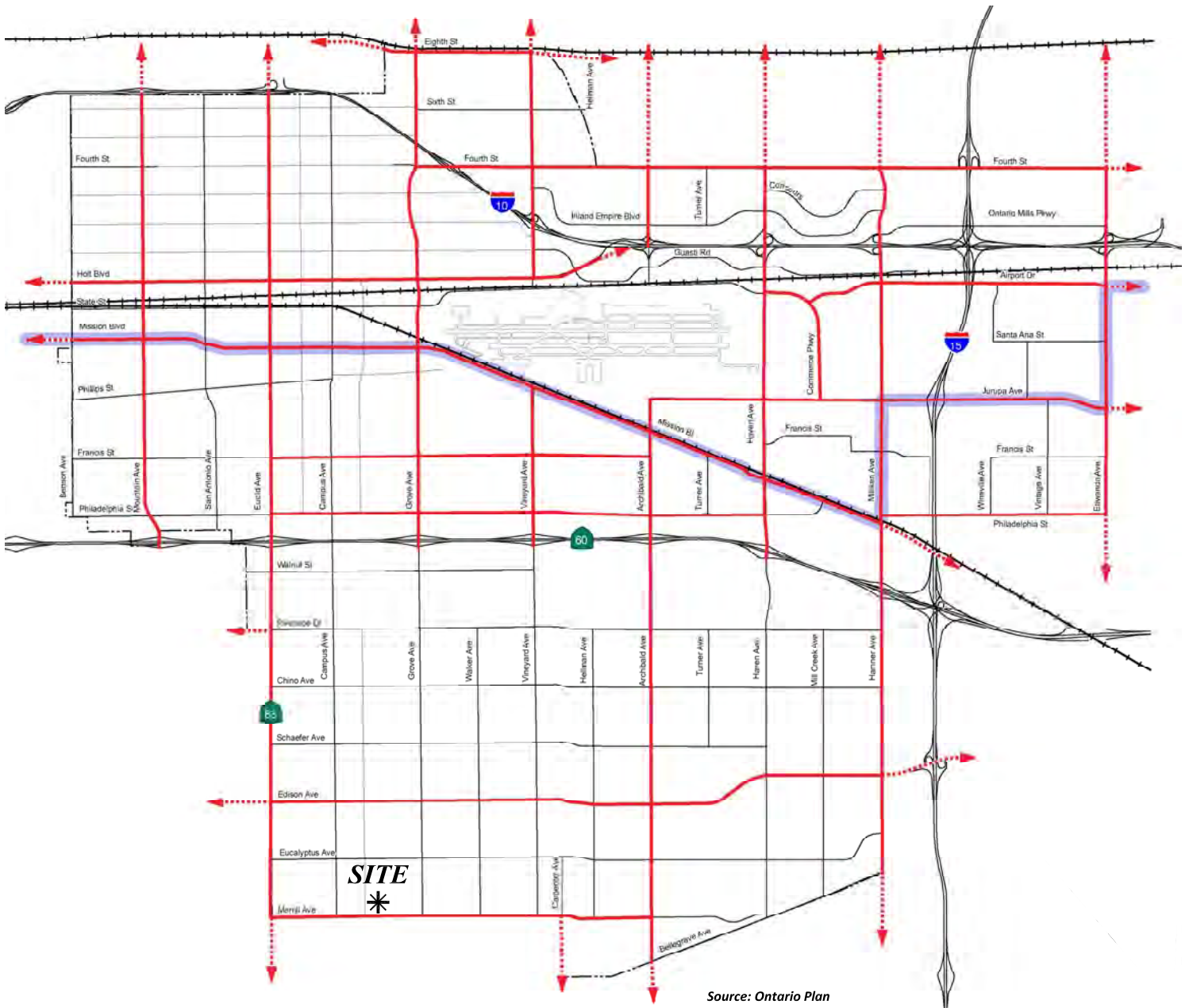
**EXHIBIT 6: INDUSTRIAL COLLECTOR**



**EXHIBIT 7: COLLECTOR**



**EXHIBIT 3-12: CITY OF ONTARIO TRUCK ROUTES**



**LEGEND:**

- Truck Routes
- State of California DOT Extralegal Load Network
- Railroad
- - - Adjacent Agency Truck Route
- Existing Streets



The City of Chino designated truck route map is shown on Exhibit 3-13. Riverside Drive, Central Avenue, Edison Avenue, Merrill Avenue, Kimball Avenue, Pine Avenue, Flight Avenue, and Hellman Avenue are some of the designated City of Chino truck routes within the study area while Euclid Avenue (SR-83) is designated as a State Truck Route. The designated truck route map has been utilized to route study area truck traffic.

### **3.5 BICYCLE, EQUESTRIAN, & PEDESTRIAN FACILITIES**

Field observations indicate nominal pedestrian and bicycle activity within the study area. Exhibit 3-14 illustrates the City of Ontario future planned bicycle facilities, which proposes Class II and Multipurpose Trails along Merrill Avenue and Campus Avenue adjacent to the Project and the Cucamonga Creek Multipurpose Trail located east of the Project. A Multipurpose Trail is also proposed along Grove Avenue. Exhibit 3-15 illustrates City of Chino future bicycle facilities, which proposes Class I bicycle facilities along Hellman Avenue and Kimball Avenue near the vicinity of the site and Class II or II bicycle facilities along Euclid Avenue (SR-83). Exhibit 3-16 illustrates the City of Eastvale trails and bikeway systems. Existing pedestrian facilities within the study area are shown on Exhibit 3-17.

### **3.6 TRANSIT SERVICE**

The study area within the City of Ontario is currently served by Omnitrans, a public transit agency serving various jurisdictions within San Bernardino County. Based on a review of the existing transit routes within the vicinity of the proposed Project, Omnitrans Route 81 operates on Riverside Drive north of the site. However, there are no existing bus routes near the vicinity of the Project. The Riverside Transit Authority (RTA) serves the City of Eastvale (and other areas of Riverside County). Transit service is reviewed and updated by Omnitrans periodically to address ridership, budget and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate. As such, it is recommended that the applicant work in conjunction with Omnitrans to potentially provide additional bus service to the site. Existing transit routes in the vicinity of the study area are illustrated on Exhibit 3-18.

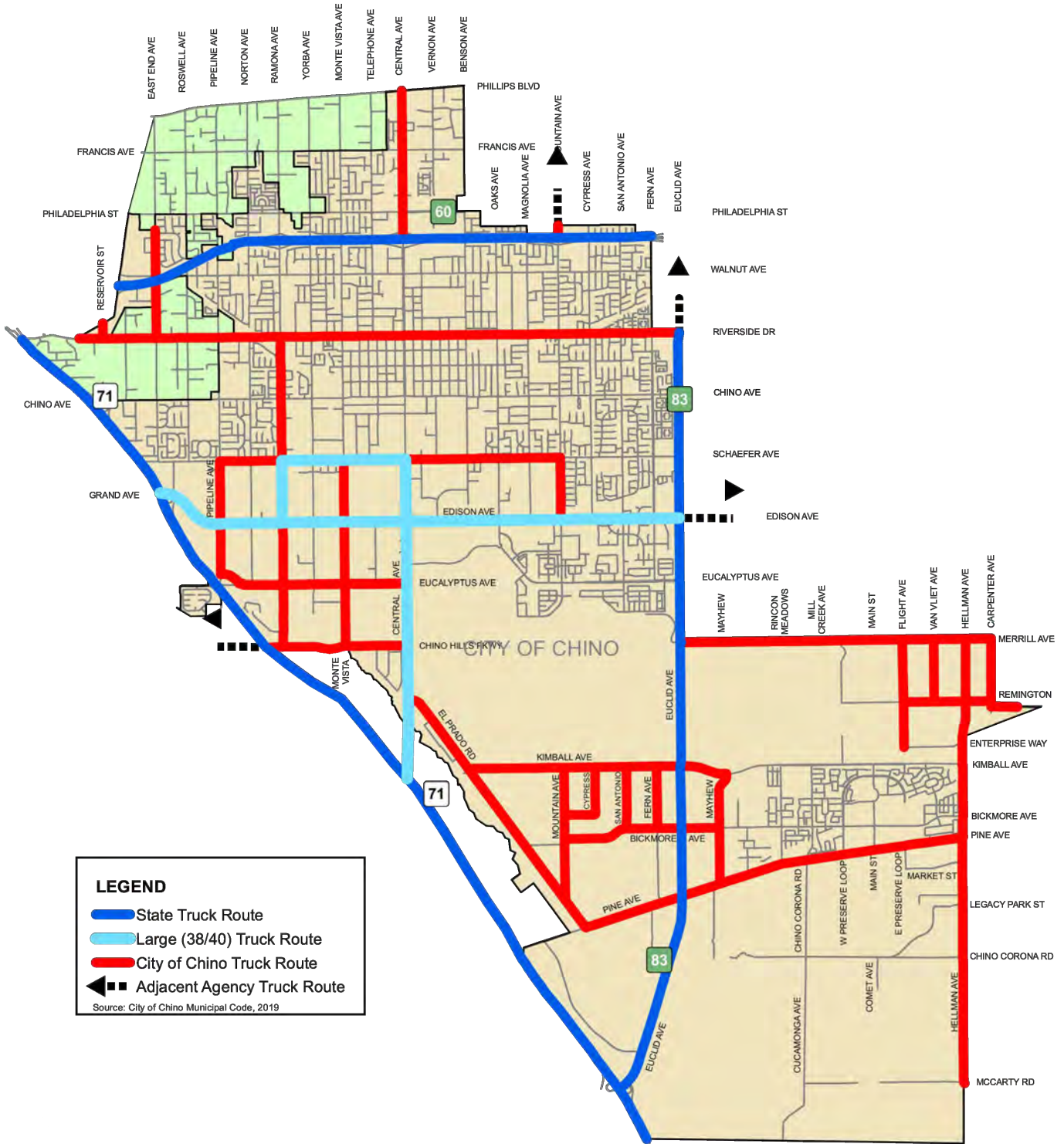
### **3.7 EXISTING TRAFFIC COUNTS**

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in January 2019. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

The weekday AM and weekday PM peak hour count data is representative of typical weekday peak hour traffic conditions in the study area. There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1.

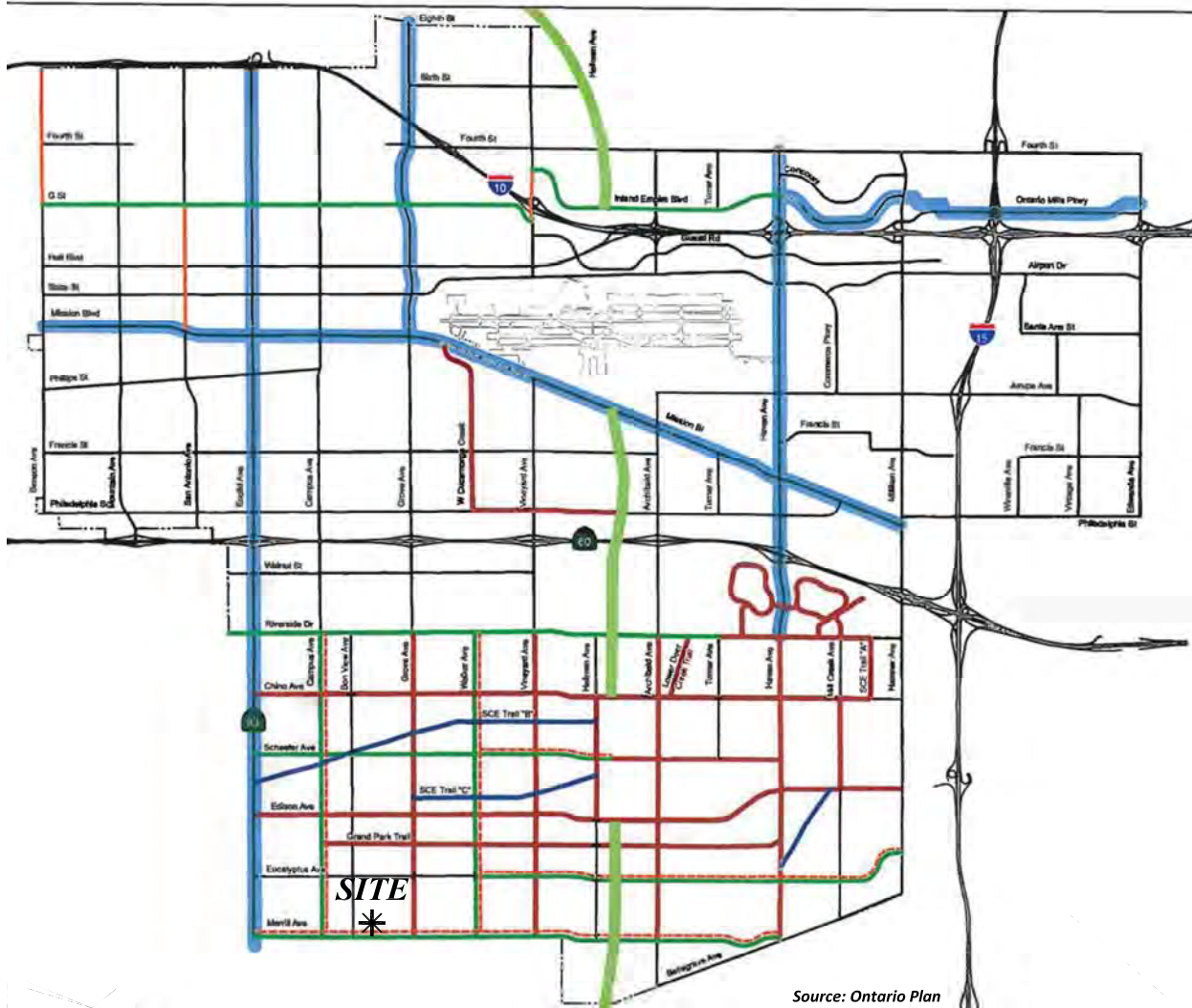
EXHIBIT 3-13: CITY OF CHINO TRUCK ROUTES



SOURCE: CITY OF CHINO GENERAL PLAN



**EXHIBIT 3-14: CITY OF ONTARIO GENERAL PLAN TRAILS AND BIKEWAY SYSTEMS**



**LEGEND:**

- Freeways
- Backbone Street System
- Multipurpose Trail
- - - Class II & Multipurpose Trail
- Class II
- Class III
- SCE Trails
- Cucamonga Creek Multipurpose Trail
- Bicycle Corridors

EXHIBIT 3-15: CITY OF CHINO FUTURE BICYCLE FACILITIES

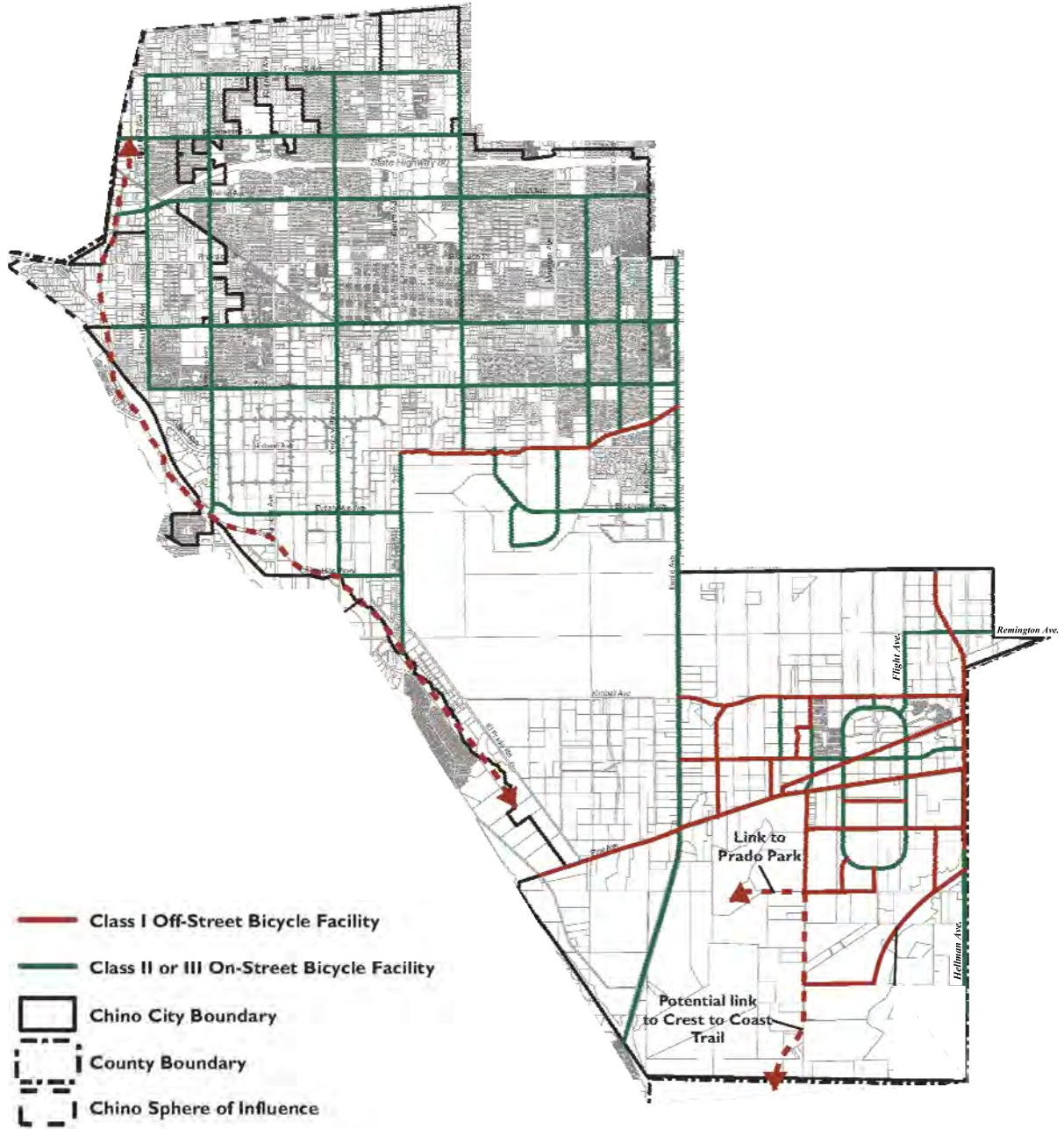
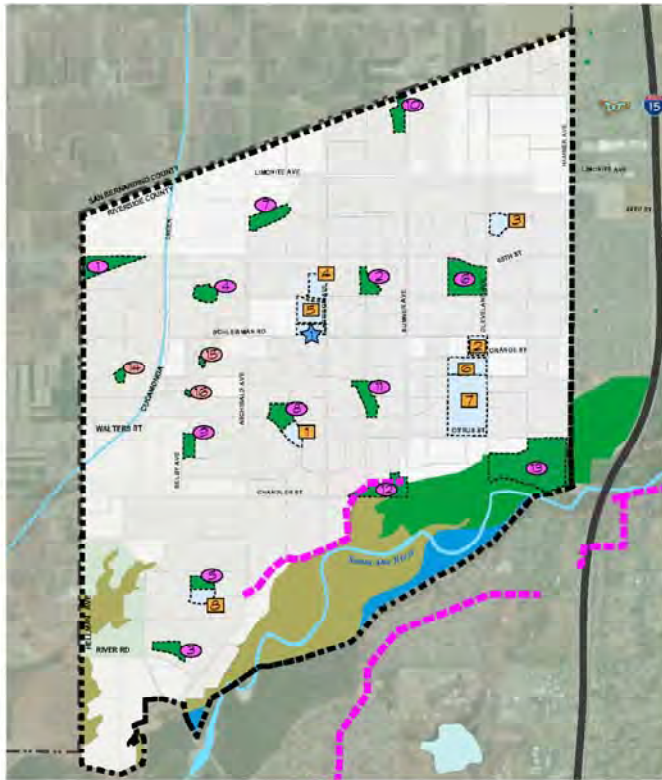
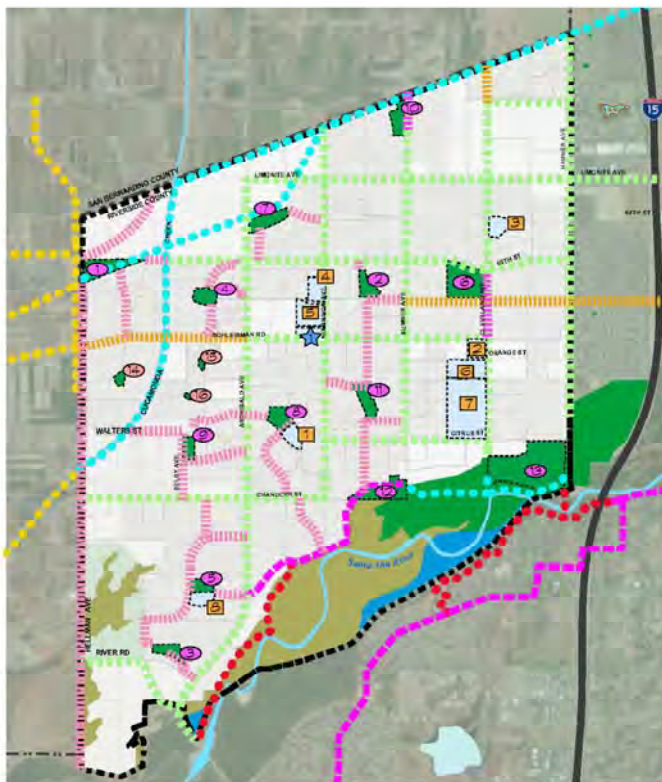


EXHIBIT 3-16: EASTVALE AREA TRAILS AND BIKEWAYS SYSTEM



<p><b>Existing JCSD Parks</b></p> <ul style="list-style-type: none"> <li>1 American Heroes Park</li> <li>2 Cedar Creek Park</li> <li>3 Dairyland Park</li> <li>4 Deer Creek Park</li> <li>5 Half Moon Park</li> <li>6 Harada Heritage Park</li> <li>7 James C. Huber Park</li> <li>8 McCune Family Park</li> <li>9 Mountain View Park</li> <li>10 Orchard Park</li> <li>11 Providence Ranch Park</li> <li>12 Riverwalk Park</li> </ul> <p><b>Planned JCSD Parks</b></p> <ul style="list-style-type: none"> <li>13 Eastvale Community Park</li> </ul> <p><b>Private Parks</b></p> <ul style="list-style-type: none"> <li>14 Avocet Park</li> <li>15 Private Park 2</li> <li>16 Private Park 3</li> </ul> <p><b>Community Center</b></p> <ul style="list-style-type: none"> <li>17 Eastvale Community Center</li> </ul>	<p><b>Existing Trails and Bikeways</b></p> <p>South Area River Trail Master Plan (2011)</p> <ul style="list-style-type: none"> <li>Existing (Off-street Class I)</li> </ul>
<p><b>Schools</b></p> <p><b>Existing Elementary</b></p> <ul style="list-style-type: none"> <li>1 Clara Barton Elementary</li> <li>2 Eastvale Elementary</li> <li>3 Harada Elementary</li> <li>4 Road Parks Elementary</li> </ul> <p><b>Intermediate</b></p> <ul style="list-style-type: none"> <li>5 Augustine Ramirez Intermediate</li> <li>6 River Heights Intermediate</li> </ul> <p><b>High School</b></p> <ul style="list-style-type: none"> <li>7 Eleanor Roosevelt High School</li> </ul> <p><b>Planned Elementary</b></p> <ul style="list-style-type: none"> <li>8 Yorba Elementary</li> </ul>	<p><b>Land Use</b></p> <ul style="list-style-type: none"> <li>Agriculture</li> <li>Conservation</li> <li>Open Space - Recreation</li> <li>Open Space - Water</li> <li>Schools (Public Facility Land Use)</li> </ul> <p><small>Land Use Data: County of Riverside, Transportation and Land Management Agency, County Wide GIS Data - 12/2011 (Updated to reflect known changes in land use data)</small></p>

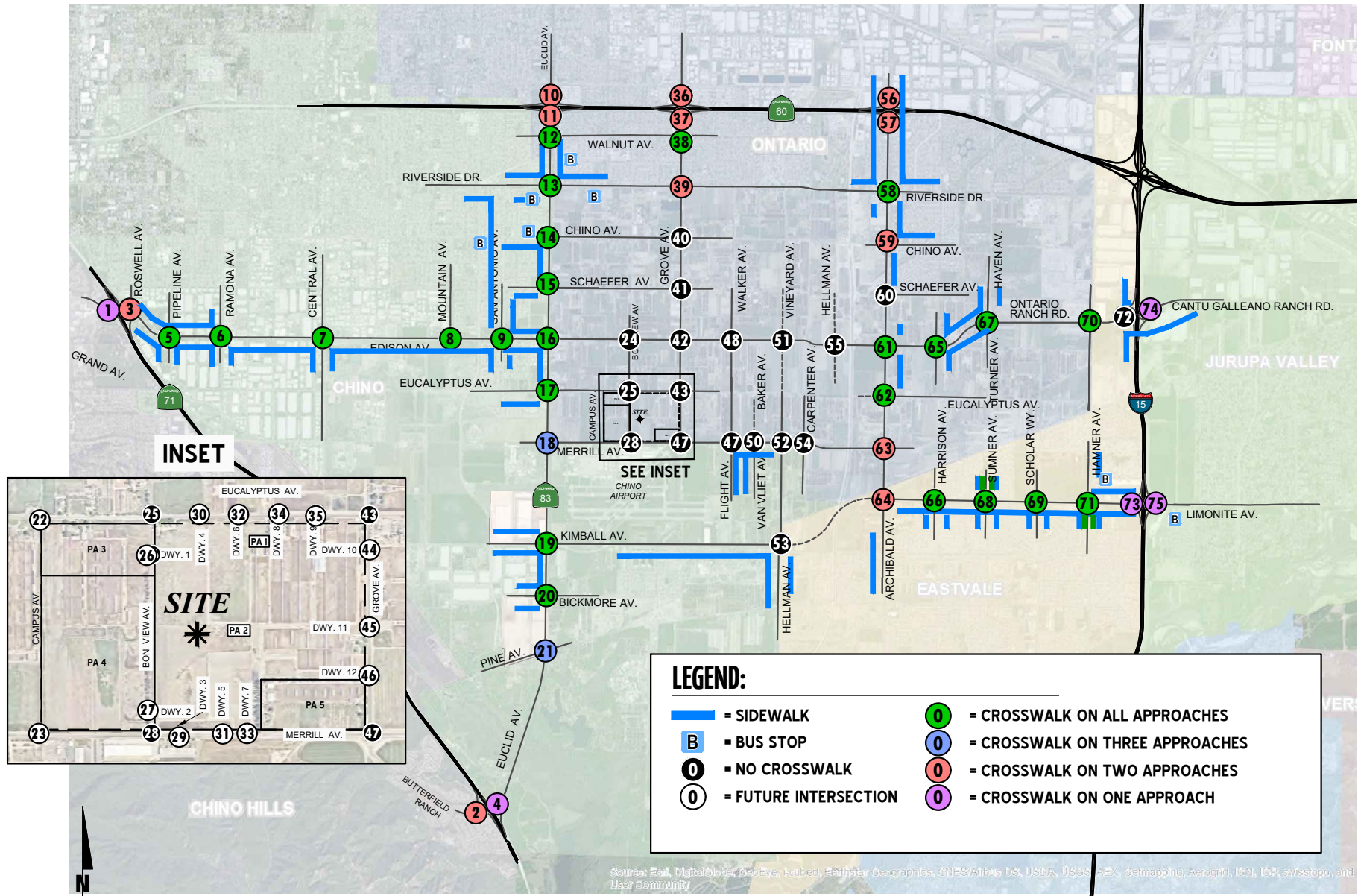
Exhibit 2.8-1 Existing Trails



<p><b>Existing JCSD Parks</b></p> <ul style="list-style-type: none"> <li>1 American Heroes Park</li> <li>2 Cedar Creek Park</li> <li>3 Dairyland Park</li> <li>4 Deer Creek Park</li> <li>5 Half Moon Park</li> <li>6 Harada Heritage Park</li> <li>7 James C. Huber Park</li> <li>8 McCune Family Park</li> <li>9 Mountain View Park</li> <li>10 Orchard Park</li> <li>11 Providence Ranch Park</li> <li>12 Riverwalk Park</li> </ul> <p><b>Planned JCSD Parks</b></p> <ul style="list-style-type: none"> <li>13 Eastvale Community Park</li> </ul> <p><b>Private Parks</b></p> <ul style="list-style-type: none"> <li>14 Avocet Park</li> <li>15 Private Park 2</li> <li>16 Private Park 3</li> </ul> <p><b>Community Center</b></p> <ul style="list-style-type: none"> <li>17 Eastvale Community Center</li> </ul>	<p><b>Trails and Bikeways</b></p> <p>South Area River Trail Master Plan (2011)</p> <ul style="list-style-type: none"> <li>Existing (Off-street Class I)</li> <li>Planned (Off-street Class I)</li> </ul> <p>JCSD Planned Multi-Use Trail</p> <ul style="list-style-type: none"> <li>Planned (Off-street Class I)</li> </ul> <p>City of Chino General Plan (2010)</p> <ul style="list-style-type: none"> <li>Planned (Off-street Class I)</li> </ul> <p>JCSD Planned Trails &amp; Bikeways</p> <ul style="list-style-type: none"> <li>On-street Class II</li> <li>On-street Class II</li> </ul> <p>Riverside County General Plan (Draft 2010)</p> <ul style="list-style-type: none"> <li>Planned (On-street Class I)</li> </ul>
<p><b>Schools</b></p> <p><b>Existing Elementary</b></p> <ul style="list-style-type: none"> <li>1 Clara Barton Elementary</li> <li>2 Eastvale Elementary</li> <li>3 Harada Elementary</li> <li>4 Road Parks Elementary</li> </ul> <p><b>Intermediate</b></p> <ul style="list-style-type: none"> <li>5 Augustine Ramirez Intermediate</li> <li>6 River Heights Intermediate</li> </ul> <p><b>High School</b></p> <ul style="list-style-type: none"> <li>7 Eleanor Roosevelt High School</li> </ul> <p><b>Planned Elementary</b></p> <ul style="list-style-type: none"> <li>8 Yorba Elementary</li> </ul>	<p><b>Land Use</b></p> <ul style="list-style-type: none"> <li>Agriculture</li> <li>Conservation</li> <li>Open Space - Recreation</li> <li>Open Space - Water</li> <li>Schools (Public Facility Land Use)</li> </ul> <p><small>Land Use Data: County of Riverside, Transportation and Land Management Agency, County Wide GIS Data - 12/2011 (Updated to reflect known changes in land use data)</small></p>

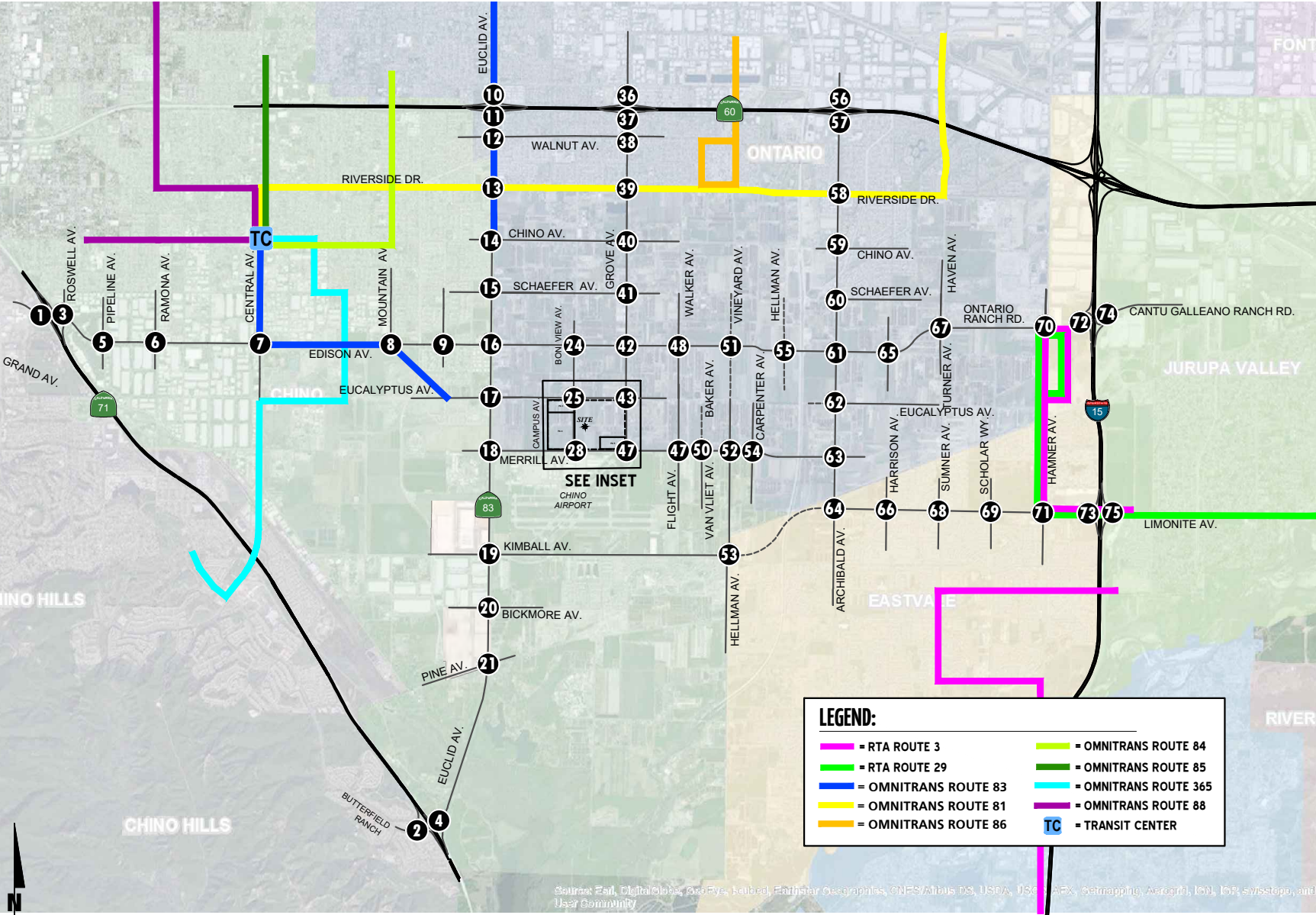
Exhibit 2.8-2 Planned Trails

EXHIBIT 3-17: EXISTING PEDESTRIAN FACILITIES



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGP, swisstopo, and the User Community

EXHIBIT 3-18: EXISTING TRANSIT ROUTES



**LEGEND:**

= RTA ROUTE 3	= OMNITRANS ROUTE 84
= RTA ROUTE 29	= OMNITRANS ROUTE 85
= OMNITRANS ROUTE 83	= OMNITRANS ROUTE 365
= OMNITRANS ROUTE 81	= OMNITRANS ROUTE 88
= OMNITRANS ROUTE 86	= TRANSIT CENTER

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRTM30, and User Community



The traffic counts collected in January 2019 include the following vehicle classifications: Passenger Cars, 2-Axle Trucks, 2-Axle Trucks, and 4 or More Axle Trucks. To represent the effect of large trucks, buses and recreational vehicles have on traffic flow; all trucks were converted into passenger car equivalent (PCE). By their size alone, these vehicles occupy the same space as two or more passenger cars. In addition, the time it takes for them to accelerate and slow-down is much longer than for passenger cars and varies depending on the type of vehicle and number of axles. For the purpose of this analysis, a PCE factor of 1.5 has been applied to 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4+-axle trucks to estimate each turning movement. These factors are consistent with the values recommended for use in the CMP.

Due to the school and business closures associated with the currently ongoing COVID-19 pandemic, traffic counts were not collected since the traffic volumes would likely be understated. As such and pursuant to discussions with City staff, a 5% per year growth rate for turning movements along major roadways (i.e., Archibald Avenue, Pine Avenue, Euclid Avenue, Limonite Avenue) and a 2% per year growth rate for all other movements have been utilized to conservatively reflect 2021 conditions.

Existing weekday ADT volumes are shown on Exhibit 3-19. Where actual 24-hour tube count data was not available, Existing ADT volumes were based upon factored intersection peak hour counts collected by Urban Crossroads, Inc. using the following formula for each intersection leg:

$$\text{Weekday PM Peak Hour (Approach Volume + Exit Volume)} \times 12.55 = \text{Leg Volume}$$

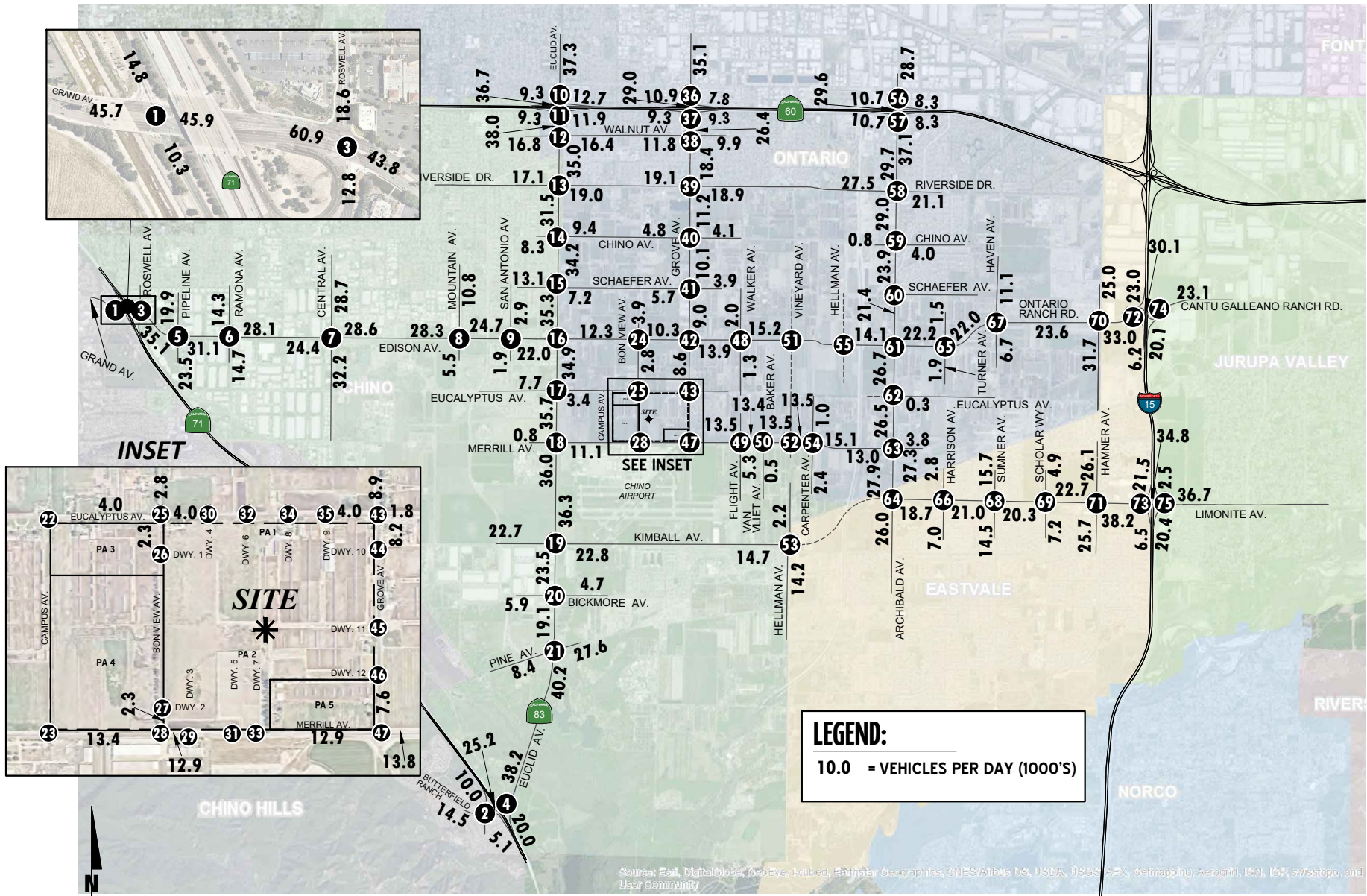
A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicated that the peak-to-daily relationship is approximately 7.97 percent. As such, the above equation utilizing a factor of 12.55 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of approximately 7.97 percent (i.e.,  $1/0.0797 = 12.55$ ) and was assumed to sufficiently estimate average daily traffic (ADT) volumes for planning-level analyses. Existing weekday AM and weekday PM peak hour intersection volumes (in actual vehicles) are shown on Exhibit 3-20. The peak hour operations analyses utilize PCE volumes per the City's Traffic Study Guidelines (PCE volumes are included in the appendices with the HCM operations analysis worksheets for each applicable analysis scenario).

### 3.8 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized on Table 3-1, which indicates that all existing study area intersections are currently operating at acceptable LOS during the peak hours with exception to the following:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E PM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM peak hour; LOS E PM peak hour

EXHIBIT 3-19: EXISTING (2021) AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 3-20 (1of3): EXISTING (2021) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>307(440) 5(1) 794(813) 1323(1265) 63(280)</p> <p>734(1309) 200(523)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>40(67) 26(66) 628(629) 275(249) 195(121)</p> <p>547(723) 31(58)</p> <p>19(17) 229(126)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>639(735) 41(153) 25(63) 1004(1456)</p> <p>319(346) 1035(1479) 173(298)</p> <p>446(349) 70(130) 65(202)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>910(874) 740(355)</p> <p>649(788) 289(148)</p> <p>43(120) 62(907)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>67(148) 317(518) 57(123) 42(77) 793(821) 150(220)</p> <p>106(249) 781(980) 142(225)</p> <p>142(268) 195(412) 98(161)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>86(96) 419(377) 40(55) 61(53) 916(840) 48(82)</p> <p>91(107) 735(1056) 55(107)</p> <p>41(87) 285(407) 54(69)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>237(129) 866(746) 68(101) 104(78) 937(562) 300(242)</p> <p>141(207) 424(814) 50(78)</p> <p>69(17) 732(934) 292(391)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>250(204) 75(162) 90(101) 99(77) 951(600) 10(34)</p> <p>134(196) 464(1054) 38(77)</p> <p>80(36) 146(88) 39(27)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>89(48) 36(40) 13(10) 19(13) 844(640) 3(7)</p> <p>44(80) 525(1006) 26(37)</p> <p>40(21) 70(29) 13(10)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>470(473) 899(961) 408(392) 6(6) 571(576)</p> <p>332(233) 902(1034)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>1175(1186) 363(361)</p> <p>404(400) 2(3) 288(306)</p> <p>832(865) 656(551)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>59(141) 1128(1061) 150(253) 204(135) 307(356) 71(67)</p> <p>113(103) 289(356) 109(133)</p> <p>125(178) 1122(1158) 45(70)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>152(185) 940(880) 174(134) 115(62) 488(393) 187(178)</p> <p>153(145) 311(440) 49(71)</p> <p>66(63) 909(975) 155(230)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>92(69) 1007(999) 56(24) 51(9) 151(108) 71(75)</p> <p>104(93) 165(273) 37(47)</p> <p>46(39) 971(1163) 129(219)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>122(111) 914(1016) 29(28) 11(25) 177(64) 140(76)</p> <p>153(280) 73(276) 58(178)</p> <p>102(82) 934(1090) 35(80)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>167(175) 799(1092) 63(82) 63(34) 416(252) 33(39)</p> <p>156(265) 237(463) 97(279)</p> <p>208(139) 869(1042) 37(68)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>40(62) 954(1239) 22(44) 37(9) 151(21) 32(8)</p> <p>67(37) 25(157) 150(202)</p> <p>169(102) 1060(1076) 12(17)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>39(1) 981(1155) 120(251) 228(136) 48(2) 225(183)</p> <p>4(11) 8(29) 17(12)</p> <p>10(4) 1013(1136) 140(224)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>377(228) 586(725) 190(412) 295(165) 721(305) 44(58)</p> <p>124(344) 223(743) 32(45)</p> <p>84(60) 704(802) 28(36)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>142(134) 575(631) 34(75) 131(49) 195(21) 166(35)</p> <p>47(115) 8(96) 23(55)</p> <p>27(22) 546(617) 20(73)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>16(4) 617(689) 34(50) 24(22) 297(64) 934(459)</p> <p>8(5) 173(424) 47(90)</p> <p>51(54) 612(661) 621(1031)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>44(46) 96(78) 18(17) 16(6) 495(281) 19(6)</p> <p>48(68) 211(470) 14(22)</p> <p>17(13) 73(86) 13(10)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>47(13) 55(62) 29(20) 19(9) 175(54) 1(2)</p> <p>18(15) 41(212) 3(4)</p> <p>17(5) 55(93) 3(7)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 3-20 (2of3): EXISTING (2021) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Future Intersection</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Future Intersection</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Future Intersection</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Future Intersection</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Future Intersection</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 3-20 (3OF3): EXISTING (2021) TRAFFIC VOLUMES**

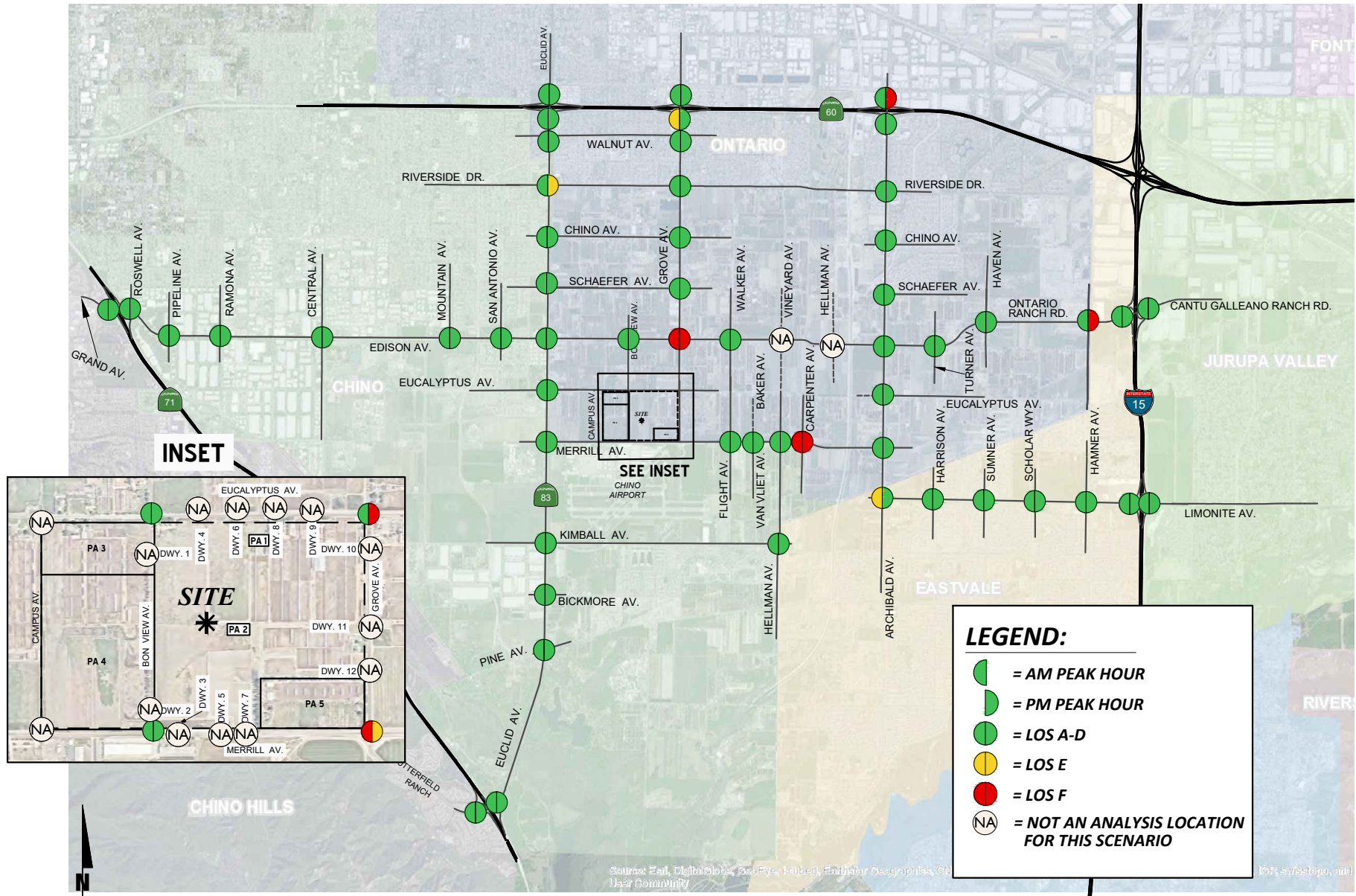
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>← 629(383) 0(0)</p> <p>346(669) → 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>← 13(91) ← 28(45) ← 0(0) ← 0(0)</p> <p>18(14) ↓ 0(0) ↓ 288(733) ↓</p> <p>880(288) ↑ 49(19) ↑ 0(0) ↑</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>← 10(1) ← 0(5) ← 114(52)</p> <p>9(4) ↓ 290(639) ↓ 25(21) ↓</p> <p>40(7) ↑ 585(335) ↑ 175(25) ↑</p> <p>19(32) ↑ 0(4) ↑ 106(99) ↑</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>← 188(435) ← 369(1044)</p> <p>← 471(253) ← 4(5) ← 386(376)</p> <p>630(379) ↑ 1004(470) ↑</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>← 622(1050) ← 152(369)</p> <p>333(101) ↓ 3(0) ↓ 470(534) ↓</p> <p>1268(748) ↑ 576(511) ↑</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>← 233(235) ← 483(840) ← 128(273)</p> <p>227(214) ↓ 293(598) ↓ 240(331) ↓</p> <p>318(271) ↑ 1035(575) ↑ 44(47) ↑</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>← 24(12) ← 663(1034) ← 111(137)</p> <p>91(20) ↓ 3(1) ↓ 25(6) ↓</p> <p>235(107) ↑ 4(0) ↑ 66(19) ↑</p> <p>102(19) ↑ 1015(717) ↑ 34(35) ↑</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>Future Intersection</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>← 88(69) ← 357(762) ← 63(131)</p> <p>← 133(71) ← 450(200) ← 335(274)</p> <p>22(83) ↓ 190(533) ↓ 40(120) ↓</p> <p>148(67) ↑ 896(523) ↑ 343(275) ↑</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>← 715(1143) ← 23(9)</p> <p>15(10) ↑ 11(2) ↑</p> <p>8(1) ↑ 1438(861) ↑</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>← 200(156) ← 459(889) ← 37(68)</p> <p>179(234) ↓ 19(67) ↓ 89(395) ↓</p> <p>120(51) ↑ 42(22) ↑ 72(44) ↑</p> <p>382(109) ↑ 1097(559) ↑ 36(38) ↑</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>← 456(831) ← 173(516)</p> <p>729(227) ↑ 257(290) ↑</p> <p>788(516) ↑ 261(321) ↑</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>← 56(21) ← 15(7) ← 33(27)</p> <p>← 18(13) ← 979(567) ← 42(31)</p> <p>26(41) ↓ 528(1010) ↓ 33(38) ↓</p> <p>56(25) ↑ 24(7) ↑ 36(38) ↑</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>← 72(30) ← 109(45) ← 26(16)</p> <p>← 21(5) ← 743(470) ← 137(202)</p> <p>39(74) ↓ 383(708) ↓ 19(52) ↓</p> <p>137(31) ↑ 103(43) ↑ 204(151) ↑</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>← 66(106) ← 56(253) ← 115(162)</p> <p>← 79(126) ← 812(493) ← 21(60)</p> <p>129(114) ↓ 560(817) ↓ 28(65) ↓</p> <p>61(28) ↑ 184(86) ↑ 76(23) ↑</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>← 151(189) ← 184(428) ← 93(113)</p> <p>232(208) ↓ 439(559) ↓ 27(77) ↓</p> <p>31(44) ↑ 604(486) ↑ 105(207) ↑</p> <p>171(41) ↑ 367(208) ↑ 107(135) ↑</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>← 27(29) ← 185(128) ← 49(28)</p> <p>30(38) ↓ 654(735) ↓ 62(41) ↓</p> <p>25(54) ↑ 559(673) ↑ 40(119) ↑</p> <p>94(41) ↑ 169(91) ↑ 96(122) ↑</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>← 79(107) ← 200(790) ← 148(451)</p> <p>← 195(107) ← 759(422) ← 264(580)</p> <p>93(87) ↓ 521(736) ↓ 79(263) ↓</p> <p>165(195) ↑ 674(372) ↑ 484(233) ↑</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>← 109(209) ← 359(605) ← 152(182)</p> <p>← 82(144) ← 354(388) ← 169(356)</p> <p>164(275) ↓ 478(480) ↓ 40(66) ↓</p> <p>152(186) ↑ 668(560) ↑ 244(173) ↑</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 1050(940) ← 310(290)</p> <p>← 175(418) ← 511(443)</p> <p>941(1021) ↓ 318(491) ↓</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>← 392(400) ← 0(1) ← 143(129)</p> <p>← 592(929) ← 0(0)</p> <p>1032(1096) ↓ 506(499) ↓</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 443(673) ← 352(292)</p> <p>479(635) ↓ 772(707) ↓</p> <p>243(192) ↑ 289(229) ↑</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>← 378(186) ← 1057(1089)</p> <p>488(775) ↓ 687(450) ↓</p> <p>169(352) ↑ 0(0) ↑ 308(735) ↑</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 3-21: EXISTING (2021) SUMMARY OF LOS**



**Table 3-1**  
Page 1 of 2

**Intersection Analysis for Existing (2021) Conditions**

#	Intersection	Traffic Control <sup>3</sup>	Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard <sup>4</sup>
			AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	<b>61.6</b>	D	<b>E</b>	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.		Future Intersection				Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.		Future Intersection				Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	Ontario / LOS E
26	Bon View Av. & Driveway 1		Future Intersection				Ontario / LOS E
27	Bon View Av. & Driveway 2		Future Intersection				Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.		Future Intersection				Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.		Future Intersection				Ontario / LOS E
31	Driveway 5 & Merrill Av.		Future Intersection				Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.		Future Intersection				Ontario / LOS E
33	Driveway 7 & Merrill Av.		Future Intersection				Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.		Future Intersection				Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.		Future Intersection				Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	<b>61.1</b>	35.9	<b>E</b>	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	<b>88.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E

**Table 3-1**  
Page 2 of 2

**Intersection Analysis for Existing (2021) Conditions**

#	Intersection	Traffic Control <sup>3</sup>	Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard <sup>4</sup>
			AM	PM	AM	PM	
43	Grove Av. & Eucalyptus Av.	CSS	11.4	>100.0	B	F	Ontario / LOS E
44	Grove Av. & Driveway 10		Future Intersection				Ontario / LOS E
45	Grove Av. & Driveway 11		Future Intersection				Ontario / LOS E
46	Grove Av. & Driveway 12		Future Intersection				Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	54.8	48.5	F	E	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	Ontario / LOS E
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	81.8	86.0	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	118.7	D	F	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	64.1	23.1	E	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	123.6	D	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	Jurupa Valley, Caltrans / LOS D

\* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

<sup>1</sup> When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

= Through; R = Right; > = Right-Turn Overlap Phasing; >> = Free-Right Turn Lane; d= Defacto

<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>3</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal

<sup>4</sup> Minimum acceptable LOS for each applicable jurisdiction.



- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & SR-60 WB Ramps (#56) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#64) – LOS E AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F PM peak hour only

Consistent with Table 3-1, a summary of the peak hour intersection LOS for Existing conditions are shown on Exhibit 3-21. The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

### 3.9 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. The following study area intersections currently warrant a traffic signal for Existing traffic conditions:

- Bon View Avenue & Edison Avenue (#24)
- Grove Avenue & Chino Avenue (#40)
- Grove Avenue & Schaefer Avenue (#41)
- Grove Avenue & Edison Avenue (#42)
- Grove Avenue & Eucalyptus Avenue (#43)
- Grove Avenue & Merrill Avenue (#47)
- Walker Avenue/Flight Avenue & Merrill Avenue (#49)
- Carpenter Avenue & Merrill Avenue (#54)

Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

### 3.10 OFF-RAMP QUEUING ANALYSIS

A queuing analysis was performed for the off-ramps at the study area intersections along the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway to assess vehicle queues for the off ramps that may potentially result in deficient peak hour operations at the ramp-to-arterial intersections and may potentially “spill back” onto the SR-71, SR-60, and I-15 Freeway mainlines. Queuing analysis findings are presented on Table 3-2. It is important to note that off-ramp lengths are consistent with the measured distance between the intersection and the freeway mainline. As shown on Table 3-2, there are no movements that are currently experiencing queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows. Worksheets for Existing traffic conditions off-ramp queuing analysis are provided in Appendix 3.4.

**Table 3-2**

**Peak Hour Freeway Off-Ramp Queuing Summary for Existing (2021) Conditions**

Intersection	Movement	Available Stacking Distance (Feet)	95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes
	SBR	570	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	254	392 <sup>2</sup>	Yes	Yes
	NBR	815	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes
	NBR	420	237 <sup>2</sup>	778 <sup>2</sup>	Yes	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323 <sup>2</sup>	287	Yes	Yes
	WBL/T/R	1,430	331 <sup>2</sup>	294	Yes	Yes
	WBR	400	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 <sup>2</sup>	375 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	303 <sup>2</sup>	315 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes
	WBR	250	639 <sup>2</sup>	235	Yes <sup>3</sup>	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 <sup>2</sup>	520 <sup>2</sup>	Yes	Yes
	EBR	315	63	239	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 <sup>2</sup>	394 <sup>2</sup>	Yes	Yes
	WBR	250	511 <sup>2</sup>	58	Yes <sup>3</sup>	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes
	EBR	350	293	495 <sup>2,3</sup>	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes
	SBL/R	560	371 <sup>2</sup>	204	Yes	Yes
	SBR	460	280 <sup>2</sup>	183	Yes	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes
	NBR	400	34	274	Yes	Yes

<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

### **3.11 IMPROVEMENTS**

Improvement strategies have been identified at intersections that have been identified as deficient under Existing (2021) traffic conditions in an effort to achieve an acceptable LOS (i.e., LOS D or better).

#### **3.11.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS**

The effectiveness of the recommended improvement strategies to address Existing (2021) traffic deficiencies are presented on Table 3-3. Worksheets for Existing (2021) Conditions, with improvements, HCM calculation worksheets are provided in Appendix 3.5.

#### **3.12.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES**

As shown previously on Table 3-2, there are no peak hour queuing issues at the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway study area interchanges. As such, no improvements have been identified.

Table 3-3

Intersection Analysis for Existing (2021) Conditions With Improvements

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard		
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM			
			L	T	R	L	T	R	L	T	R	L	T	R	L	T	R				
13	Euclid Av. (SR-83) & Riverside Dr.																				
	- Without Improvements	TS	1	2	1	1	2	1>	1	1	0	1	2	d	51.9	61.6		D	E	Chino, Ontario, Caltrans / LOS D	
	- With Improvements <sup>4</sup>	TS	1	2	0	1	2	1>	1	1	1	1	2	d	42.0	46.2		D	D		
37	Grove Av. & SR-60 EB Ramps																				
	- Without Improvements	TS	0	2	0	1	2	0	0	1	1	0	0	0	61.1	35.9		E	D	Ontario, Caltrans / LOS D	
	- With Improvements	TS	0	2	0	1	2	0	1	1	1	0	0	0	34.0	30.9		C	C		
42	Grove Av. & Edison Av.																				
	- Without Improvements	AWS	0	1	0	0	1	0	0	1	0	0	1	0	88.0	>100.0		F	F	Ontario / LOS E	
	- With Improvements	TS	0	1	0	0	1	0	0	1	0	0	1	0	11.6	11.2		B	B		
43	Grove Av. & Eucalyptus Av.																				
	- Without Improvements	CSS	0	1	0	0	1	0	0	1	0	0	1	0	11.4	>100.0		B	F	Ontario / LOS E	
	- With Improvements	TS	0	1	0	0	1	0	0	1	0	0	1	0	8.3	9.0		A	A		
47	Grove Av. & Merrill Av.																				
	- Without Improvements	AWS	0	0	0	0	1	0	0	1	0	0	1	0	54.8	48.5		F	E	Chino, Ontario / LOS D	
	- With Improvements	TS	0	0	0	0	1	0	0	1	0	0	1	0	14.7	12.7		B	B		
54	Carpenter Av. & Merrill Av.																				
	- Without Improvements	AWS	0	1	0	0	1	0	1	1	1	1	1	0	81.8	86.0		F	F	Chino, Ontario / LOS D	
	- With Improvements	TS	0	1	0	0	1	0	1	1	1	1	1	0	9.6	9.3		A	A		
56	Archibald Av. & SR-60 WB Ramps																				
	- Without Improvements	TS	1	3	0	0	4	0	0	0	0	0	1	1	51.2	118.7		D	F	Ontario, Caltrans / LOS D	
	- With Improvements <sup>5</sup>	TS	2	3	0	0	4	1	0	0	0	1	1	1	17.8	25.1		B	C		
64	Archibald Av. & Limonite Av.																				
	- Without Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	1>	64.1	23.1		E	C	Eastvale / LOS D	
	- With Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	2>	25.5	34.5		C	C		
70	Hamner Av. & Ontario Ranch Rd.																				
	- Without Improvements	TS	2	3	1	2	2	1	2	4	0	2	2	1	47.1	123.6		D	F	Eastvale, Ontario / LOS D	
	- With Improvements <sup>6</sup>	TS	2	3	1	2	3	0	2	4	0	2	2	1	44.6	48.3		D	D		

<sup>1</sup> When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d = Defacto Right Turn Lane; 1 = Improvement

<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>3</sup> AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; TS = Improvement

<sup>4</sup> Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

<sup>5</sup> Improvements are consistent with the SR-60/Archibald Avenue interchange improvement project currently under construction.

<sup>6</sup> Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.

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## 4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. Phase 1 of the proposed Project is anticipated to be developed by Year 2024 and includes the development of PAs 1 and 2. Phase 2 of the proposed Project is also anticipated to be developed by Year 2024 and includes the development of PAs 3, 4, and 5. As stated in Section 1, Phase 1 and Phase 2 have been evaluated separately in order to identify the improvement needs for each phase.

Phase 1 (PAs 1 and 2) of the proposed Project includes the development for the following uses:

- Industrial: 1,671,574 square feet of high-cube fulfillment center warehouse use, 334,315 square feet of high-cube cold storage warehouse, and 565,763 square feet of general warehousing use
- Business Park: 601,128 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For purposes of this analysis, the following mix of land uses are assumed for Phase 2 (PAs 3, 4, and 5), which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 1,147,708 square feet of high-cube fulfillment center warehouse use, 229,542 square feet of high-cube cold storage warehouse, and 388,455 square feet of general warehousing use
- Business Park: 474,107 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For the purposes of the operations analysis, Project buildout includes both Phase 1 and Phase 2.

### 4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development.

Trip generation rates for the Project are shown on Table 4-1 for both actual vehicles and PCE. The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project in actual vehicles and PCE are shown in Table 4-2 and Table 4-3, respectively. The trip generation rates used for this analysis are based upon information collected by the ITE as provided in their Trip Generation Manual (10<sup>th</sup> Edition, 2017) and the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019). (3) (4)

**Table 4-1**

**Project Trip Generation Rates**

Land Use <sup>1</sup>	Units <sup>2</sup>	ITE LU Code	AM Peak Hour			PM Peak Hour			Daily
			In	Out	Total	In	Out	Total	
<b>Actual Vehicle Trip Generation Rates</b>									
High-Cube Fulfillment Center Warehouse <sup>3</sup>	TSF	--	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.079	0.024	0.103	0.040	0.104	0.144	1.750
2-4 Axle Trucks			0.006	0.002	0.008	0.003	0.008	0.011	0.162
5+-Axle Trucks			0.008	0.003	0.011	0.003	0.007	0.010	0.217
High-Cube Cold Storage Warehouse <sup>5</sup>	TSF	157	0.085	0.025	0.110	0.032	0.088	0.120	2.120
Passenger Cars			0.062	0.018	0.080	0.025	0.067	0.092	1.378
2-Axle Trucks			0.008	0.002	0.010	0.003	0.007	0.010	0.257
3-Axle Trucks			0.003	0.001	0.003	0.001	0.002	0.003	0.082
4+-Axle Trucks	0.012	0.004	0.016	0.004	0.011	0.015	0.403		
Business Park <sup>4,5</sup>	TSF	130	0.324	0.076	0.400	0.084	0.316	0.400	3.370
Passenger Cars			0.285	0.067	0.352	0.076	0.284	0.360	2.865
2-Axle Trucks			0.006	0.002	0.008	0.001	0.005	0.007	0.084
3-Axle Trucks			0.008	0.002	0.010	0.002	0.007	0.008	0.105
4+-Axle Trucks	0.024	0.006	0.030	0.005	0.020	0.025	0.316		
Warehousing <sup>6</sup>	TSF	150	0.131	0.039	0.170	0.051	0.139	0.190	1.740
Passenger Cars			0.114	0.034	0.148	0.044	0.118	0.162	1.270
2-Axle Trucks			0.003	0.001	0.004	0.001	0.003	0.005	0.078
3-Axle Trucks			0.004	0.001	0.005	0.002	0.004	0.006	0.097
4+-Axle Trucks	0.011	0.003	0.014	0.005	0.013	0.018	0.294		
<b>Passenger Car Equivalent (PCE) Trip Generation Rates<sup>5</sup></b>									
High-Cube Fulfillment Center Warehouse <sup>3</sup>	TSF	--	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.079	0.024	0.103	0.040	0.104	0.144	1.750
2-4 Axle Trucks (PCE = 2.0)			0.012	0.004	0.016	0.006	0.016	0.022	0.324
5+-Axle Trucks (PCE = 3.0)			0.025	0.008	0.033	0.008	0.022	0.030	0.651
High-Cube Cold Storage Warehouse <sup>5</sup>	TSF	157	0.085	0.025	0.110	0.032	0.088	0.120	2.120
Passenger Cars			0.062	0.018	0.080	0.025	0.067	0.092	1.378
2-Axle Trucks (PCE = 1.5)			0.012	0.004	0.015	0.004	0.010	0.014	0.386
3-Axle Trucks (PCE = 2.0)			0.005	0.002	0.007	0.002	0.004	0.006	0.163
4+-Axle Trucks (PCE = 3.0)	0.037	0.011	0.048	0.012	0.033	0.045	1.209		
Business Park <sup>4,5</sup>	TSF	130	0.324	0.076	0.400	0.084	0.316	0.400	3.370
Passenger Cars			0.285	0.067	0.352	0.076	0.284	0.360	2.865
2-Axle Trucks (PCE = 1.5)			0.010	0.002	0.012	0.002	0.008	0.010	0.127
3-Axle Trucks (PCE = 2.0)			0.016	0.004	0.020	0.003	0.013	0.017	0.209
4+-Axle Trucks (PCE = 3.0)	0.073	0.017	0.090	0.016	0.059	0.075	0.949		
Warehousing <sup>6</sup>	TSF	150	0.131	0.039	0.170	0.051	0.139	0.190	1.740
Passenger Cars			0.114	0.034	0.148	0.044	0.118	0.162	1.270
2-Axle Trucks (PCE = 1.5)			0.004	0.001	0.006	0.002	0.005	0.007	0.118
3-Axle Trucks (PCE = 2.0)			0.007	0.002	0.009	0.003	0.009	0.012	0.194
4+-Axle Trucks (PCE = 3.0)	0.032	0.010	0.042	0.014	0.039	0.054	0.882		

<sup>1</sup> Trip Generation Source: Institute of Transportation Engineers (ITE), *Trip Generation Manual*, Tenth Edition (2017).

<sup>2</sup> TSF = thousand square feet

<sup>3</sup> Vehicle Mix Source: *High Cube Warehouse Trip Generation Study*, WSP, January 29, 2019.

Inbound and outbound split source: *High Cube Warehouse Vehicle Trip Generation Analysis*, October 2016, ITE.

<sup>4</sup> The Specific Plan allows for the Business Park area to be developed with merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses. However, the Business Park (ITE Land Use Code 770) land use has trip generation rates for the peak hours is based on limited data (i.e., one surveyed site). As such, the trip generation rates for ITE Land Use Code 130 has been utilized for the business park portion of the Project.

<sup>5</sup> Vehicle Mix Source: ITE *Trip Generation Handbook Supplement* (2020), Appendix C.

Vehicle Mix Source: Institute of Transportation Engineers (ITE), *Trip Generation Handbook*, Third Edition (September 2017).

Truck Mix Source: South Coast Air Quality Management District (SCAQMD) *Warehouse Truck Trip Study Data Results and Usage* (2014).

Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.

Normalized % - Without Cold Storage: 16.7% 2-Axle trucks, 20.7% 3-Axle trucks, 62.6% 4-Axle trucks.

Normalized % - With Cold Storage: 34.7% 2-Axle trucks, 11.0% 3-Axle trucks, 54.3% 4-Axle trucks.

<sup>6</sup> Vehicle Mix Source: ITE *Trip Generation Handbook* (3rd Edition, 2017).

Truck Mix Source: South Coast Air Quality Management District (SCAQMD) *Warehouse Truck Trip Study Data Results and Usage* (2014).

**Table 4-2**

Page 1 of 3

**Project Trip Generation Summary (Actual Vehicles)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
<b>Phase 1</b>								
Planning Area 1: Business Park	601.128 TSF							
Passenger Cars:		171	40	211	45	171	216	1,722
2-axle Trucks:		4	1	5	1	3	4	52
3-axle Trucks:		5	1	6	1	4	5	64
4+-axle Trucks:		15	3	18	3	12	15	190
Total Truck:		24	5	29	5	19	24	306
<b>Planning Area 1: Total (Actual Vehicles)</b>		<b>195</b>	<b>45</b>	<b>240</b>	<b>50</b>	<b>190</b>	<b>240</b>	<b>2,028</b>
Planning Area 2: Fulfillment Center Warehouse (65%)	1,671.574 TSF							
Passenger Cars:		133	40	173	67	173	240	2,926
2-4 axle Trucks:		10	3	13	5	13	18	272
5+-axle Trucks:		14	4	18	5	12	17	364
Total Truck:		24	7	31	10	25	35	636
<b>Fulfillment Center Warehouse (Actual Vehicles)</b>		<b>157</b>	<b>47</b>	<b>204</b>	<b>77</b>	<b>198</b>	<b>275</b>	<b>3,562</b>
Planning Area 2: High-Cube Cold Storage Warehouse (13%)	334.315 TSF							
Passenger Cars:		21	6	27	8	23	31	462
2-axle Trucks:		3	1	4	1	2	3	86
3-axle Trucks:		1	0	1	0	1	1	28
4+-axle Trucks:		4	1	5	1	4	5	136
Total Truck:		8	2	10	2	7	9	250
<b>High-Cube Cold Storage Warehouse (Actual Vehicles)</b>		<b>29</b>	<b>8</b>	<b>37</b>	<b>10</b>	<b>30</b>	<b>40</b>	<b>712</b>
Planning Area 2: Warehouse (22%)	565.763 TSF							
Passenger Cars:		64	19	83	25	67	92	720
2-axle Trucks:		2	0	2	1	2	3	44
3-axle Trucks:		2	1	3	1	2	3	56
4+-axle Trucks:		6	2	8	3	7	10	166
Total Truck:		8	2	10	4	9	13	210
Warehouse (Actual Vehicles)		72	21	93	29	76	105	930
<b>Planning Area 2: Total (Actual Vehicles)</b>		<b>258</b>	<b>76</b>	<b>334</b>	<b>116</b>	<b>304</b>	<b>420</b>	<b>5,204</b>
Phase 1: Passenger Cars		389	105	494	145	434	579	5,830
Phase 1: Trucks (Actual Vehicles)		64	16	80	21	60	81	1,402
<b>Phase 1: Total (Actual Vehicles)</b>		<b>453</b>	<b>121</b>	<b>574</b>	<b>166</b>	<b>494</b>	<b>660</b>	<b>7,232</b>



**Table 4-2**

**Project Trip Generation Summary (Actual Vehicles)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
<b>Phase 2</b>								
Planning Area 3: Business Park	474.107 TSF							
Passenger Cars:		135	32	167	36	135	171	1,358
2-axle Trucks:		3	1	4	1	3	4	40
3-axle Trucks:		4	1	5	1	3	4	50
4+-axle Trucks:		12	3	15	2	9	11	150
Total Truck:		19	5	24	4	15	19	240
<b>Planning Area 3: Total (Actual Vehicles)</b>		<b>154</b>	<b>37</b>	<b>191</b>	<b>40</b>	<b>150</b>	<b>190</b>	<b>1,598</b>
Planning Area 4: Fulfillment Center Warehouse (65%)	876.743 TSF							
Passenger Cars:		70	21	91	35	91	126	1,534
2-4 axle Trucks:		5	2	7	3	7	10	142
5+-axle Trucks:		7	2	9	2	6	8	190
Total Truck:		12	4	16	5	13	18	332
<b>Fulfillment Center Warehouse (Actual Vehicles)</b>		<b>82</b>	<b>25</b>	<b>107</b>	<b>40</b>	<b>104</b>	<b>144</b>	<b>1,866</b>
Planning Area 4: High-Cube Cold Storage Warehouse (13%)	175.349 TSF							
Passenger Cars:		11	3	14	4	12	16	242
2-axle Trucks:		1	0	1	0	1	1	46
3-axle Trucks:		0	0	0	0	0	0	14
4+-axle Trucks:		2	1	3	1	2	3	72
Total Truck:		3	1	4	1	3	4	132
<b>High-Cube Cold Storage Warehouse (Actual Vehicles)</b>		<b>14</b>	<b>4</b>	<b>18</b>	<b>5</b>	<b>15</b>	<b>20</b>	<b>374</b>
Planning Area 4: Warehouse (22%)	296.744 TSF							
Passenger Cars:		34	10	44	13	35	48	378
2-axle Trucks:		1	0	1	0	1	1	24
3-axle Trucks:		1	0	1	0	1	1	30
4+-axle Trucks:		3	1	4	1	4	5	88
Total Truck:		5	1	6	1	6	7	142
<b>Warehouse (Actual Vehicles)</b>		<b>39</b>	<b>11</b>	<b>50</b>	<b>14</b>	<b>41</b>	<b>55</b>	<b>520</b>
<b>Planning Area 4: Total (Actual Vehicles)</b>		<b>135</b>	<b>40</b>	<b>175</b>	<b>59</b>	<b>160</b>	<b>219</b>	<b>2,760</b>

**Table 4-2**  
Page 3 of 3

**Project Trip Generation Summary (Actual Vehicles)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Planning Area 5: Fulfillment Center Warehouse (65%)	270.965 TSF							
Passenger Cars:		21	6	27	11	28	39	474
2-4 axle Trucks:		2	0	2	1	2	3	44
5+-axle Trucks:		2	1	3	1	2	3	60
Total Truck:		4	1	5	2	4	6	104
<b>Fulfillment Center Warehouse (Actual Vehicles)</b>		<b>25</b>	<b>7</b>	<b>32</b>	<b>13</b>	<b>32</b>	<b>45</b>	<b>578</b>
Planning Area 5: High-Cube Cold Storage Warehouse (13%)	54.193 TSF							
Passenger Cars:		3	1	4	1	4	5	76
2-axle Trucks:		0	0	0	0	0	0	14
3-axle Trucks:		0	0	0	0	0	0	4
4+-axle Trucks:		1	0	1	0	1	1	22
Total Truck:		1	0	1	0	1	1	40
<b>High-Cube Cold Storage Warehouse (Actual Vehicles)</b>		<b>4</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>6</b>	<b>116</b>
Planning Area 5: Warehouse (22%)	91.711 TSF							
Passenger Cars:		10	3	13	4	11	15	116
2-axle Trucks:		0	0	0	0	0	0	8
3-axle Trucks:		0	0	0	0	0	0	10
4+-axle Trucks:		1	0	1	0	1	1	28
Total Truck:		1	0	1	0	1	1	46
<b>Warehouse (Actual Vehicles)</b>		<b>11</b>	<b>3</b>	<b>14</b>	<b>4</b>	<b>12</b>	<b>16</b>	<b>162</b>
<b>Planning Area 5 Total (Actual Vehicles)</b>		<b>40</b>	<b>11</b>	<b>51</b>	<b>18</b>	<b>49</b>	<b>67</b>	<b>856</b>
Phase 2: Passenger Cars		284	76	360	104	316	420	4,178
Phase 2: Trucks (Actual Vehicles)		45	12	57	13	43	56	1,036
<b>Phase 2: Total (Actual Vehicles)</b>		<b>329</b>	<b>88</b>	<b>417</b>	<b>117</b>	<b>359</b>	<b>476</b>	<b>5,214</b>
Project Buildout: Passenger Cars		673	181	854	249	750	999	10,008
Project Buildout: Trucks (Actual Vehicles)		109	28	137	34	103	137	2,438
<b>Project Buildout: (Actual Vehicles)</b>		<b>782</b>	<b>209</b>	<b>991</b>	<b>283</b>	<b>853</b>	<b>1,136</b>	<b>12,446</b>

<sup>1</sup> TSF = thousand square feet

<sup>2</sup> Square footage assumptions for each Planning Area are based on maximum planned development as defined by the Specific Plan.

**Table 4-3**  
Page 1 of 3

**Project Trip Generation Summary (PCE)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
<b>Phase 1</b>								
Planning Area 1: Business Park	601.128 TSF							
Passenger Cars:		171	40	211	45	171	216	1,722
2-axle Trucks:		6	1	7	1	5	6	76
3-axle Trucks:		10	2	12	2	8	10	126
4+-axle Trucks:		44	10	54	9	36	45	572
Total Truck:		60	13	73	12	49	61	774
<b>Planning Area 1: Total (PCE)</b>		<b>231</b>	<b>53</b>	<b>284</b>	<b>57</b>	<b>220</b>	<b>277</b>	<b>2,496</b>
Planning Area 2: Fulfillment Center Warehouse (65%)	1,671.574 TSF							
Passenger Cars:		133	40	173	67	173	240	2,926
2-4 axle Trucks:		21	6	27	10	26	36	542
5+-axle Trucks:		42	13	55	14	36	50	1,088
Total Truck:		63	19	82	24	62	86	1,630
<b>Fulfillment Center Warehouse (PCE)</b>		<b>196</b>	<b>59</b>	<b>255</b>	<b>91</b>	<b>235</b>	<b>326</b>	<b>4,556</b>
Planning Area 2: High-Cube Cold Storage Warehouse (13%)	334.315 TSF							
Passenger Cars:		21	6	27	8	23	31	462
2-axle Trucks:		4	1	5	1	4	5	130
3-axle Trucks:		2	1	3	1	1	2	56
4+-axle Trucks:		12	4	16	4	11	15	404
Total Truck:		18	6	24	6	16	22	590
<b>High-Cube Cold Storage Warehouse (PCE)</b>		<b>39</b>	<b>12</b>	<b>51</b>	<b>14</b>	<b>39</b>	<b>53</b>	<b>1,052</b>
Planning Area 2: Warehouse (22%)	565.763 TSF							
Passenger Cars:		64	19	83	25	67	92	720
2-axle Trucks:		2	1	3	1	3	4	68
3-axle Trucks:		4	1	5	2	5	7	110
4+-axle Trucks:		18	5	23	8	22	30	500
Total Truck:		24	7	31	11	30	41	678
<i>Warehouse (PCE)</i>		88	26	114	36	97	133	1,398
<b>Planning Area 2: Total (PCE)</b>		<b>323</b>	<b>97</b>	<b>420</b>	<b>141</b>	<b>371</b>	<b>512</b>	<b>7,006</b>
Phase 1: Passenger Cars		389	105	494	145	434	579	5,830
Phase 1: Trucks (PCE)		165	45	210	53	157	210	3,672
<b>Phase 1: Total (PCE)</b>		<b>554</b>	<b>150</b>	<b>704</b>	<b>198</b>	<b>591</b>	<b>789</b>	<b>9,502</b>

**Table 4-3**  
Page 2 of 3

**Project Trip Generation Summary (PCE)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
<b>Phase 2</b>								
Planning Area 3: Business Park	474.107 TSF							
Passenger Cars:		135	32	167	36	135	171	1,358
2-axle Trucks:		5	1	6	1	4	5	60
3-axle Trucks:		8	2	10	2	6	8	100
4+-axle Trucks:		35	8	43	7	28	35	450
Total Truck:		40	9	49	8	32	40	510
<b>Planning Area 3: Total (PCE)</b>		<b>175</b>	<b>41</b>	<b>216</b>	<b>44</b>	<b>167</b>	<b>211</b>	<b>1,868</b>
Planning Area 4: Fulfillment Center Warehouse (65%)	876.743 TSF							
Passenger Cars:		70	21	91	35	91	126	1,534
2-4 axle Trucks:		11	3	14	5	14	19	284
5+-axle Trucks:		22	7	29	7	19	26	572
Total Truck:		33	10	43	12	33	45	856
<b>Fulfillment Center Warehouse (PCE)</b>		<b>103</b>	<b>31</b>	<b>134</b>	<b>47</b>	<b>124</b>	<b>171</b>	<b>2,390</b>
Planning Area 4: High-Cube Cold Storage Warehouse (13%)	175.349 TSF							
Passenger Cars:		11	3	14	4	12	16	242
2-axle Trucks:		2	1	3	1	2	3	68
3-axle Trucks:		1	0	1	0	1	1	30
4+-axle Trucks:		7	2	9	2	6	8	212
Total Truck:		10	3	13	3	9	12	310
<b>High-Cube Cold Storage Warehouse (PCE)</b>		<b>21</b>	<b>6</b>	<b>27</b>	<b>7</b>	<b>21</b>	<b>28</b>	<b>552</b>
Planning Area 4: Warehouse (22%)	296.744 TSF							
Passenger Cars:		34	10	44	13	35	48	378
2-axle Trucks:		1	0	1	1	2	3	36
3-axle Trucks:		2	1	3	1	3	4	58
4+-axle Trucks:		9	3	12	4	12	16	262
Total Truck:		12	4	16	6	17	23	356
<b>Warehouse (PCE)</b>		<b>46</b>	<b>14</b>	<b>60</b>	<b>19</b>	<b>52</b>	<b>71</b>	<b>734</b>
<b>Planning Area 4: Total (PCE)</b>		<b>170</b>	<b>51</b>	<b>221</b>	<b>73</b>	<b>197</b>	<b>270</b>	<b>3,676</b>

**Table 4-3**  
Page 3 of 3

**Project Trip Generation Summary (PCE)**

Land Use	Quantity <sup>2</sup> Units <sup>1</sup>	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Planning Area 5: Fulfillment Center Warehouse (65%)	270.965 TSF							
Passenger Cars:		21	6	27	11	28	39	474
2-4 axle Trucks:		3	1	4	2	4	6	88
5+-axle Trucks:		7	2	9	2	6	8	176
Total Truck:		10	3	13	4	10	14	264
<b>Fulfillment Center Warehouse (PCE)</b>		<b>31</b>	<b>9</b>	<b>40</b>	<b>15</b>	<b>38</b>	<b>53</b>	<b>738</b>
Planning Area 5: High-Cube Cold Storage Warehouse (13%)	54.193 TSF							
Passenger Cars:		3	1	4	1	4	5	76
2-axle Trucks:		1	0	1	0	1	1	22
3-axle Trucks:		0	0	0	0	0	0	10
4+-axle Trucks:		2	1	3	1	2	3	66
Total Truck:		3	1	4	1	3	4	98
<b>High-Cube Cold Storage Warehouse (PCE)</b>		<b>6</b>	<b>2</b>	<b>8</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>174</b>
Planning Area 5: Warehouse (22%)	91.711 TSF							
Passenger Cars:		10	3	13	4	11	15	116
2-axle Trucks:		0	0	0	0	0	0	12
3-axle Trucks:		1	0	1	0	1	1	18
4+-axle Trucks:		3	1	4	1	4	5	82
Total Truck:		4	1	5	1	5	6	112
<b>Warehouse (PCE)</b>		<b>14</b>	<b>4</b>	<b>18</b>	<b>5</b>	<b>16</b>	<b>21</b>	<b>228</b>
<b>Planning Area 5 Total (PCE)</b>		<b>51</b>	<b>15</b>	<b>66</b>	<b>22</b>	<b>61</b>	<b>83</b>	<b>1,140</b>
Phase 2: Passenger Cars		284	76	360	104	316	420	4,178
Phase 2: Trucks (PCE)		112	31	143	35	109	144	2,506
<b>Phase 2: Total (PCE)</b>		<b>396</b>	<b>107</b>	<b>503</b>	<b>139</b>	<b>425</b>	<b>564</b>	<b>6,684</b>
Project Buildout: Passenger Cars		673	181	854	249	750	999	10,008
Project Buildout: Trucks (PCE)		277	76	353	88	266	354	6,178
<b>Project Buildout: (PCE)</b>		<b>950</b>	<b>257</b>	<b>1,207</b>	<b>337</b>	<b>1,016</b>	<b>1,353</b>	<b>16,186</b>

<sup>1</sup> TSF = thousand square feet

For purposes of this analysis, the following ITE land use codes and vehicle mixes have been utilized:

- High-Cube Fulfillment Center Warehouse has been used to derive site specific trip generation estimates for the proposed Project. The ITE Trip Generation Manual (2017) has trip generation rates for high-cube fulfillment center use (ITE land use code 155), however, these rates are unreliable because they are based on limited data (i.e., one to two surveyed sites) and the ITE Trip Generation Manual recommends the use of local data sources where available. As such, the trip-generation statistics published in the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) which was commissioned by the Western Riverside Council of Governments (WRCOG) in support of the Transportation Uniform Mitigation Fee (TUMF) update, has been utilized for the high-cube fulfillment center use. The WSP trip generation rates were published in January 2019 and are based on data collected at 11 local high-cube fulfillment center sites. However, the WSP study does not include a split for inbound and outbound vehicles, as such, the inbound and outbound splits per the ITE High-Cube Warehouse Vehicle Trip Generation Analysis (October 2016) have been utilized. (12)
- ITE land use code 157 (High-Cube Cold Storage Warehouse) has been used to derive site specific trip generation estimates for the proposed Project. The truck percentage was obtained from the ITE's High Cube Warehouse Vehicle Trip Generation Analysis (October 2016). The vehicle mix varies by peak hour and overall daily: 69.2% passenger cars in the AM peak hour, 78.3% passenger cars in the PM peak hour, and 67.8% passenger cars weekday daily. Trip generation for heavy trucks was further broken down by truck type (or axle type). The total truck percentage is comprised of 3 different truck types: 2-axle, 3-axle, and 4+-axle trucks. For the purposes of this analysis, the percentage of trucks, by axle type, were obtained from the SCAQMD Warehouse Truck Trip Study Data Results and Usage (2014) recommended truck mix. The SCAQMD has recently performed surveys of existing facilities and compiled the data to provide interim guidance on the mix of heavy trucks for these types of high-cube warehousing/distribution facilities. Based on this interim guidance from the SCAQMD, the following truck fleet mix was utilized for the purposes of estimating the truck trip generation for the site (with cold storage): 34.7% of the total trucks as 2-axle trucks, 11.0% of the total trucks as 3-axle trucks, and 54.3% of the total trucks as 4+-axle trucks.
- The Specific Plan allows for business park to be developed with merchant wholesale, professional services, professional office, warehouse/storage, research and development, and other similar related uses. Because the peak hour trip generation rates collected for the "business park" land use category by the ITE as provided in their Trip Generation Manual, 10<sup>th</sup> Edition, 2017 (ITE land use code 770) are based on limited data (i.e., a single surveyed site) that does not have the same physical or operational characteristics as the range of uses permitted in the Business Park planning areas of the Specific Plan, the trip generation rates for ITE land use code 130 (Industrial Park) have been used to derive site specific trip generation estimates for the Project. The ITE Trip Generation Handbook (3<sup>rd</sup> Edition, 2017) identifies a 13% mix of heavy trucks for ITE land use code 130, however, does not provide a breakdown of the 13% further by axle type. As such, the percentage of trucks, by axle type, were obtained from the South Coast Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (2014) recommended truck mix. Based on this guidance from the SCAQMD, the following truck fleet mix was utilized for the purposes of estimating the truck trip generation for the business park use (without cold storage): 16.7% of the total trucks as 2-axle trucks, 20.7% of the total trucks as 3-axle trucks, and 62.6% of the total trucks as 4+-axle trucks.

Finally, PCE factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles) for both the Industrial and Business Park planning areas of the Merrill Commerce Center Specific Plan. PCEs allow the typical “real-world” mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in Appendix B of the San Bernardino County CMP, 2016 Update.

As shown on Table 4-2, the proposed Project (Project Buildout) is anticipated to generate a total of 12,446 trip-ends per day, with 991 AM peak hour trips and 1,136 PM peak hour trips. For the purposes of the operations analysis, the PCE trip generation shown in Table 4-3 has been utilized.

## 4.2 PROJECT TRIP DISTRIBUTION

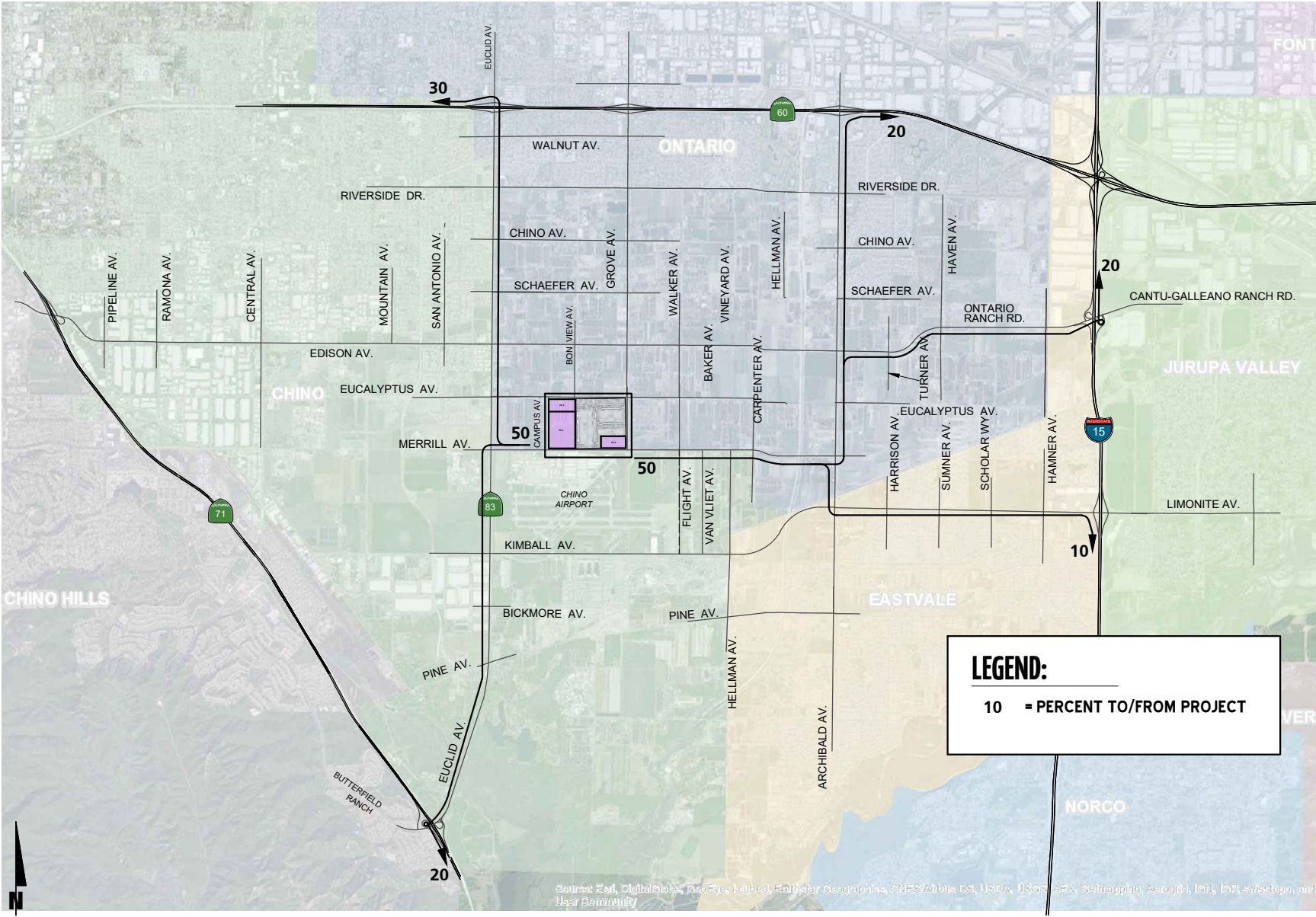
The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern of passenger cars is heavily influenced by the geographical location of the site, the location of surrounding uses, and the proximity to the regional freeway system. The trip distribution pattern for truck traffic is also influenced by the local truck routes approved by the City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, City of Jurupa Valley, and Caltrans. Given these differences, separate trip distributions were generated for both passenger cars and truck trips.

The Opening Year Cumulative distribution patterns utilize the existing roadway system in relation to the Horizon Year trip distribution patterns, which assumes future roadway connections. The Project trip distribution patterns are also affected by near-term development patterns in the vicinity of the Project site. The extension of Limonite Avenue/Kimball Avenue extension between Hellman Avenue and Archibald Avenue, and the Merrill Avenue extension to Bellegrave Avenue have also been assumed for Horizon Year conditions only.

Exhibit 4-1 illustrates the truck trip distribution patterns for Opening Year Cumulative and Horizon Year conditions. As shown on Exhibit 4-1, trucks are anticipated to utilize designated truck routes such as Merrill Avenue, Euclid Avenue (SR-83), Archibald Avenue, Edison Avenue/Ontario Ranch Road, and Limonite Avenue to reach regional freeways such as the SR-71, SR-60, and I-15 Freeways. These travel patterns are not anticipated to change with the addition of new future facilities for Horizon Year traffic conditions.

Exhibit 4-2 illustrates the Opening Year Cumulative passenger car trip distribution patterns. The Opening Year Cumulative passenger car trip distribution patterns are based on a SBTAM select zone run for a zone wholly or partially containing the Project, with modifications to utilize existing roadways. Exhibit 4-3 illustrates the passenger car trip distribution patterns for Horizon Year traffic conditions which is based on a SBTAM select zone run of the Project.

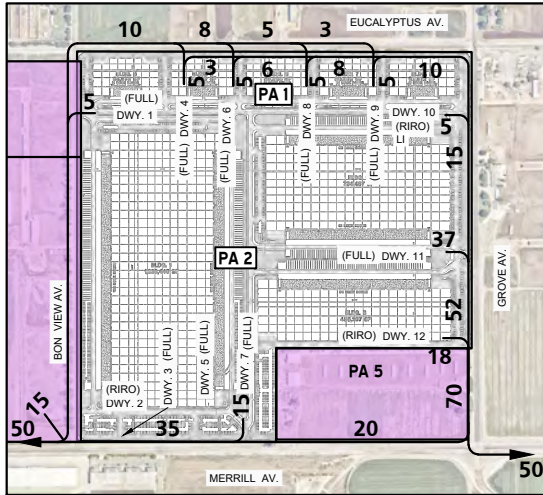
**EXHIBIT 4-1 (1of2): PROJECT (TRUCK) TRIP DISTRIBUTION**



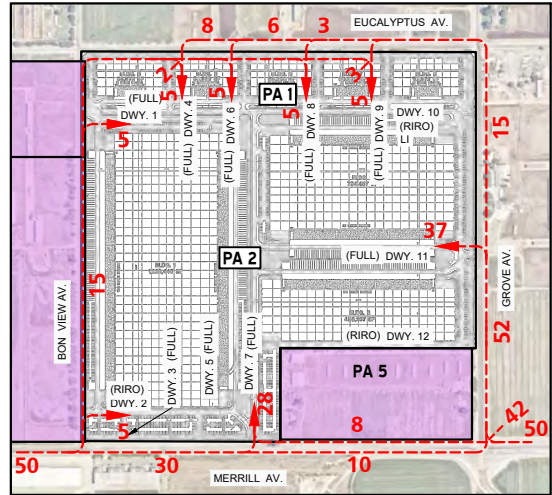
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Geomatics, AeroGRID, IGN, IGP, swisstopo, and User Community



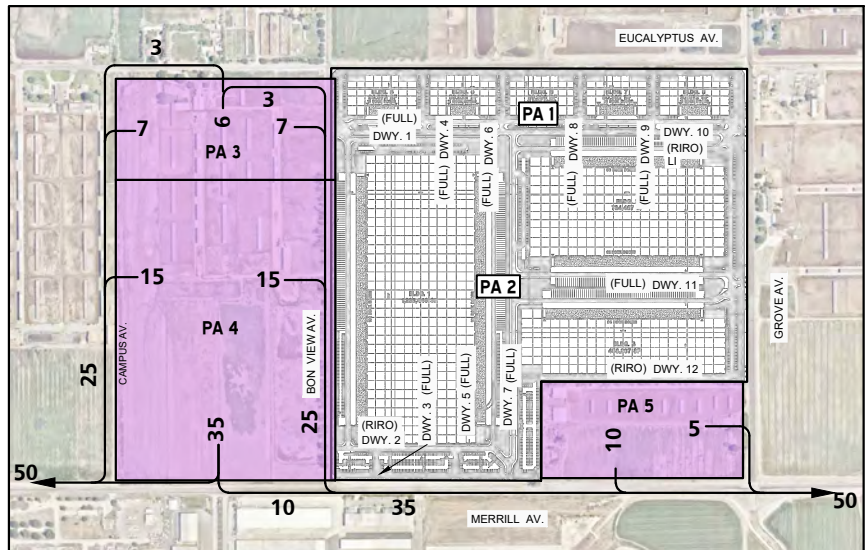
EXHIBIT 4-1 (2OF2): PROJECT (TRUCK) TRIP DISTRIBUTION



PHASE 1



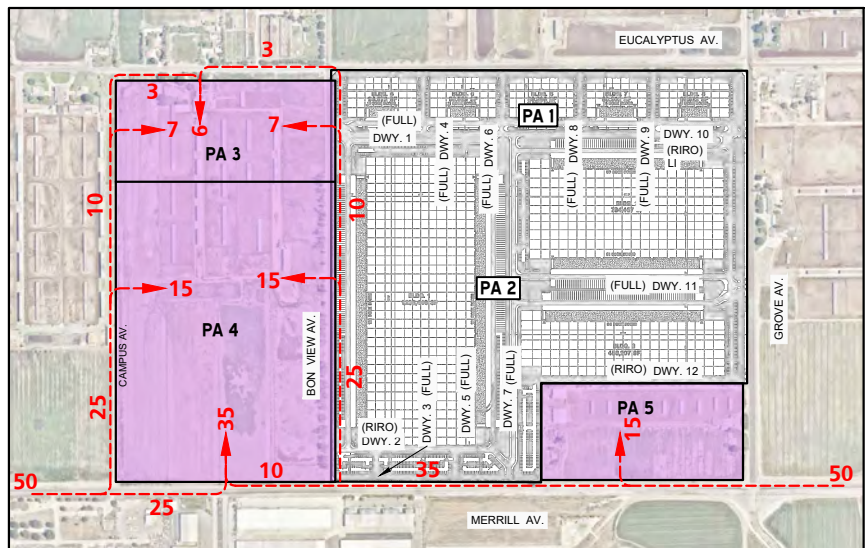
PHASE 2



LEGEND:

- 10 = PERCENT TO/FROM PROJECT
- ← = OUTBOUND
- ← (red dashed) = INBOUND

PHASE 2



**EXHIBIT 4-2 (1OF2): PROJECT (OPENING YEAR PASSENGER CAR) TRIP DISTRIBUTION**

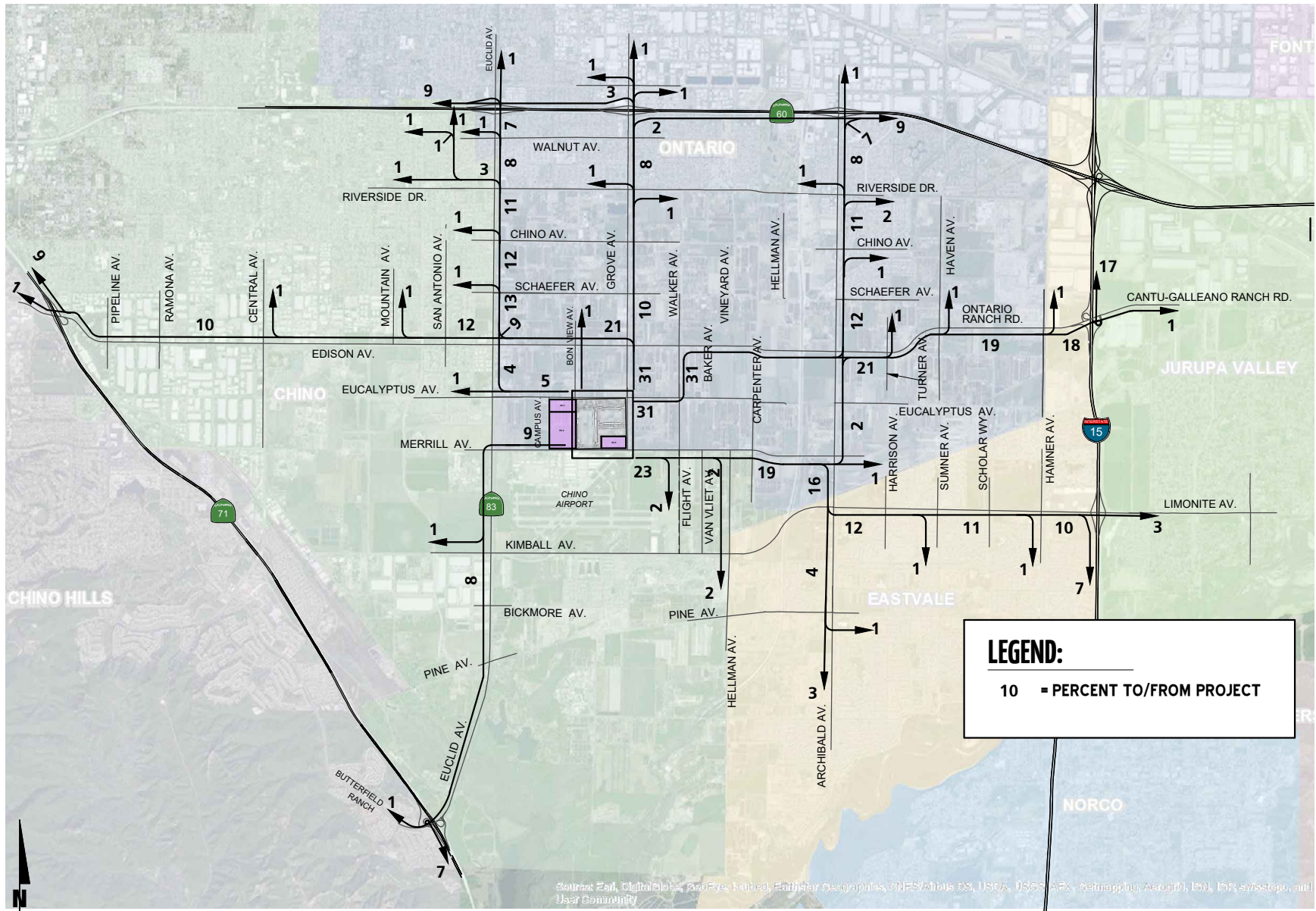
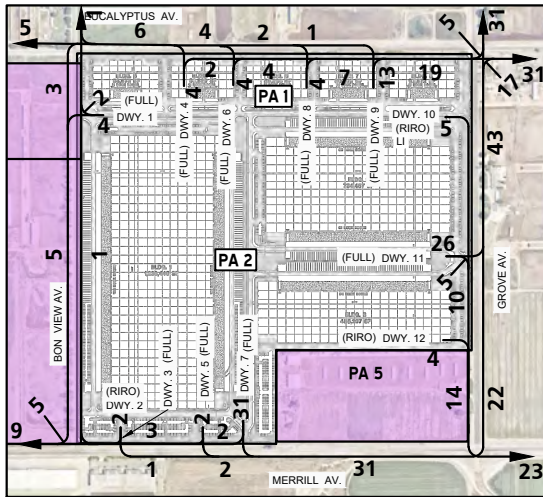
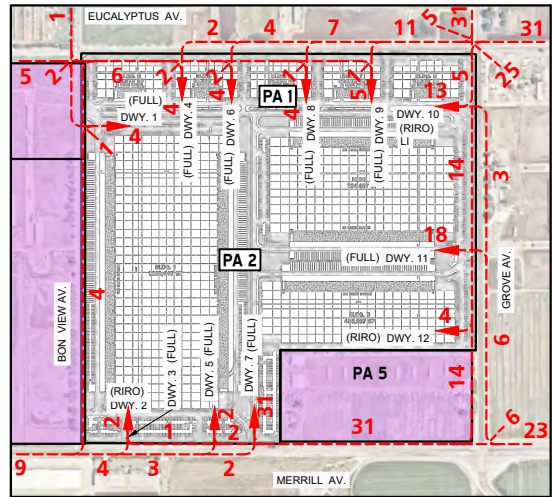


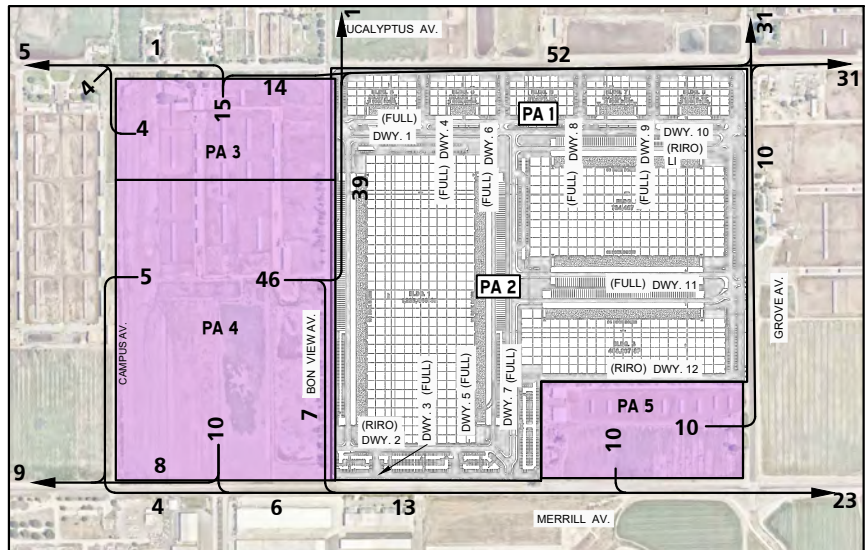
EXHIBIT 4-2 (2OF2): PROJECT (OPENING YEAR PASSENGER CAR) TRIP DISTRIBUTION



PHASE 1



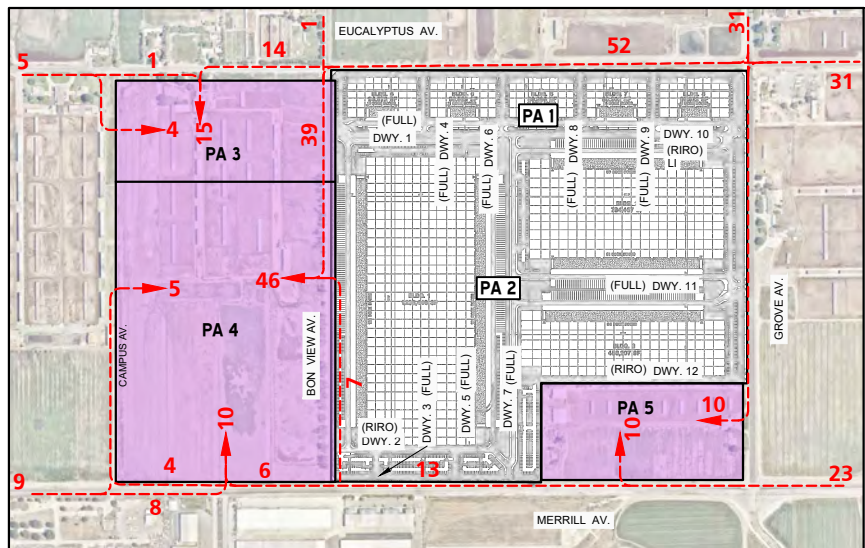
PHASE 2



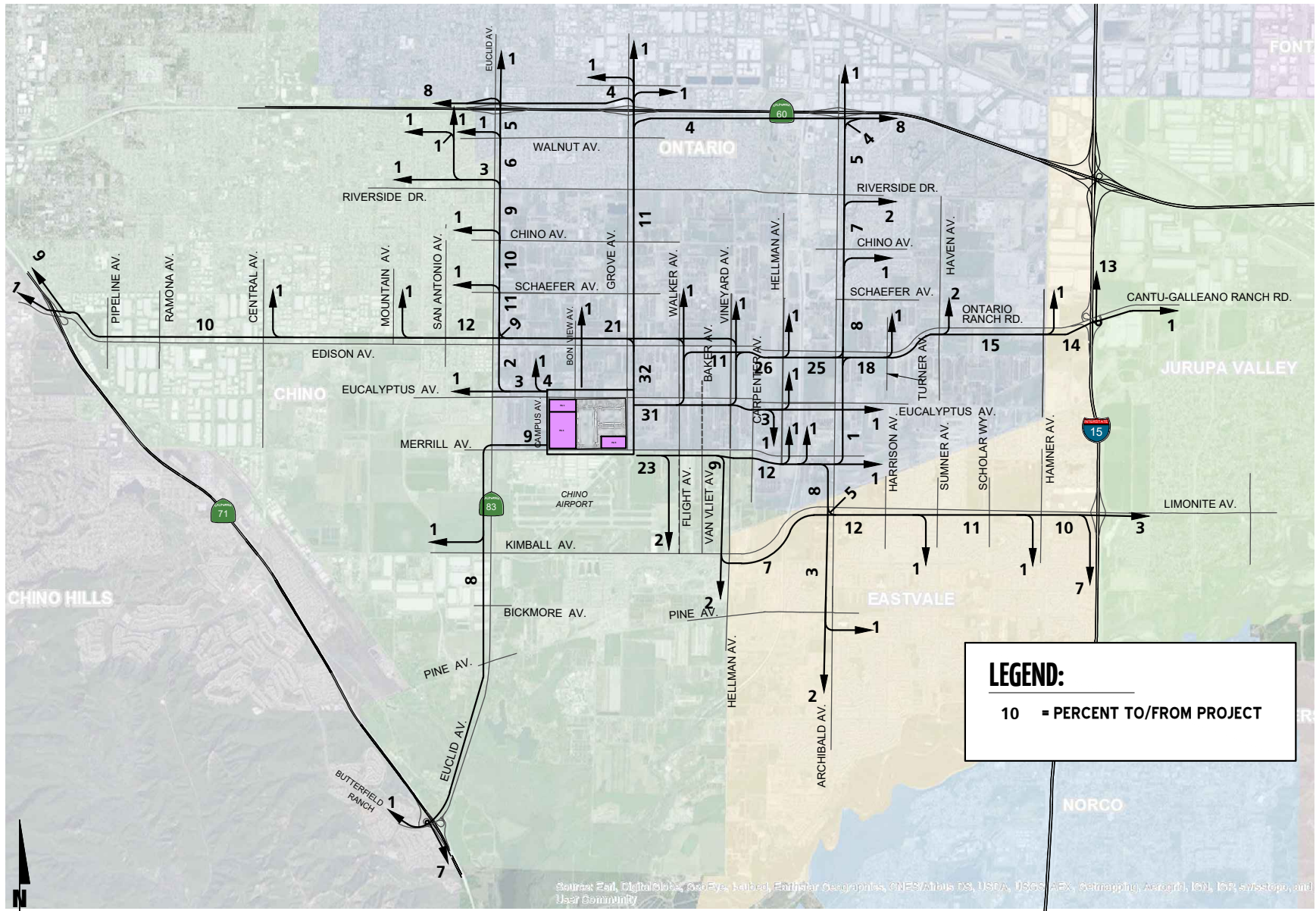
LEGEND:

- 10 = PERCENT TO/FROM PROJECT
- ← = OUTBOUND
- ↔ (red dashed) = INBOUND

PHASE 2

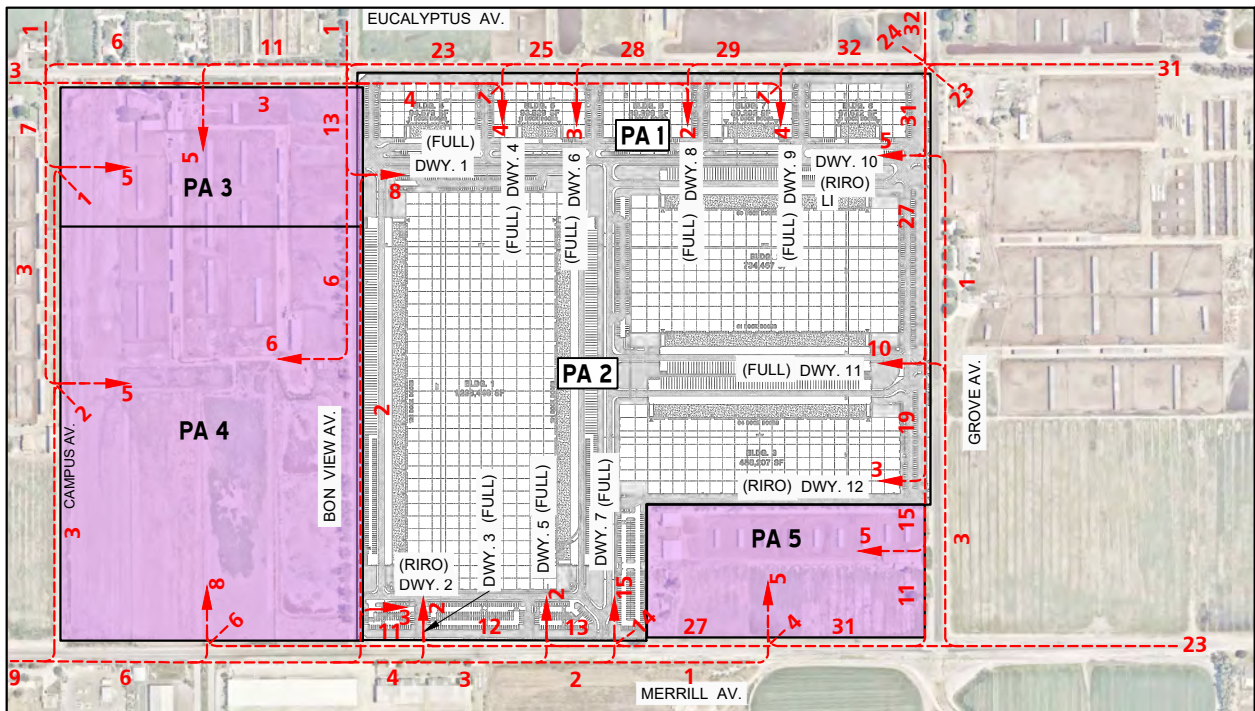
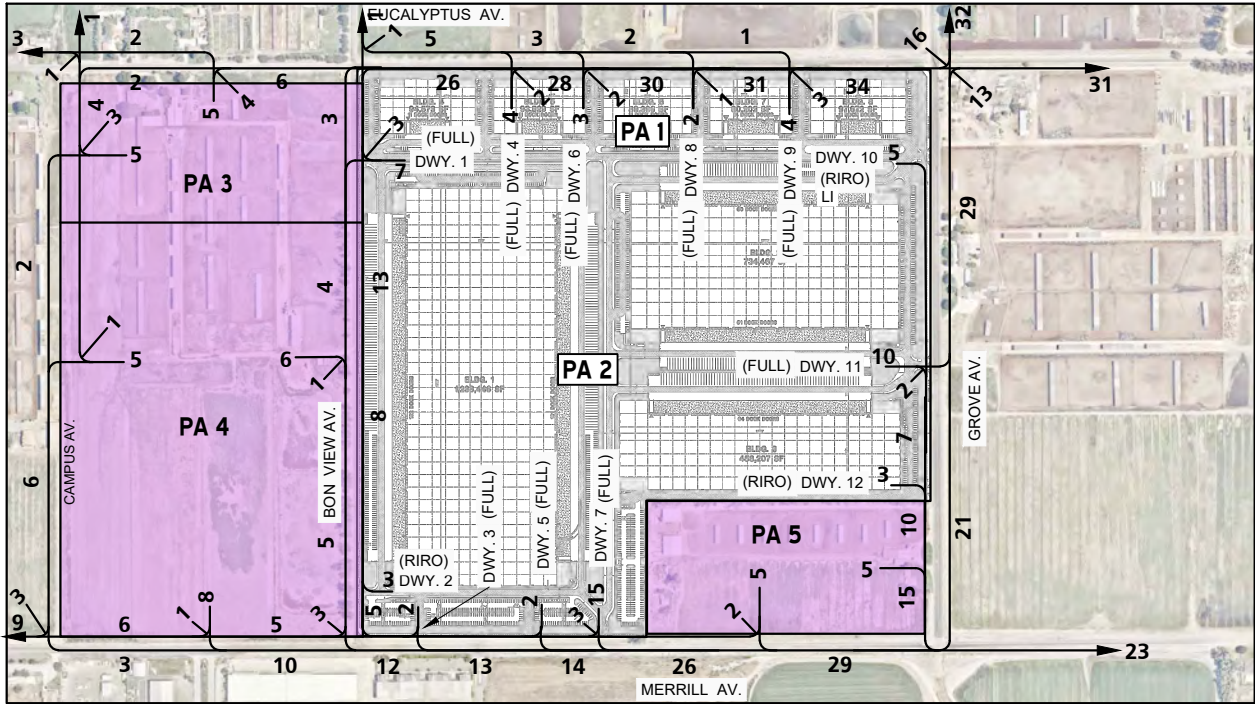


**EXHIBIT 4-3 (1OF2): PROJECT (HORIZON YEAR PASSENGER CAR) TRIP DISTRIBUTION**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRTM30, and User Community

**EXHIBIT 4-3 (2OF2): PROJECT (HORIZON YEAR PASSENGER CAR) TRIP DISTRIBUTION**



**LEGEND:**

- 10 = PERCENT TO/FROM PROJECT
- ← = OUTBOUND
- ↔ (dashed) = INBOUND



### **4.3 MODAL SPLIT**

The potential for Project trips (non-truck) to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes (non-truck trips only).

### **4.4 PROJECT TRIP ASSIGNMENT**

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, Project ADT and peak hour intersection turning movement volumes are shown on the following exhibits:

- Exhibits 4-4 and 4-5 for Phase 1 traffic conditions
- Exhibits 4-6 and 4-7 for Project Buildout traffic conditions
- Exhibits 4-8 and 4-9 for Horizon Year (2040) traffic conditions

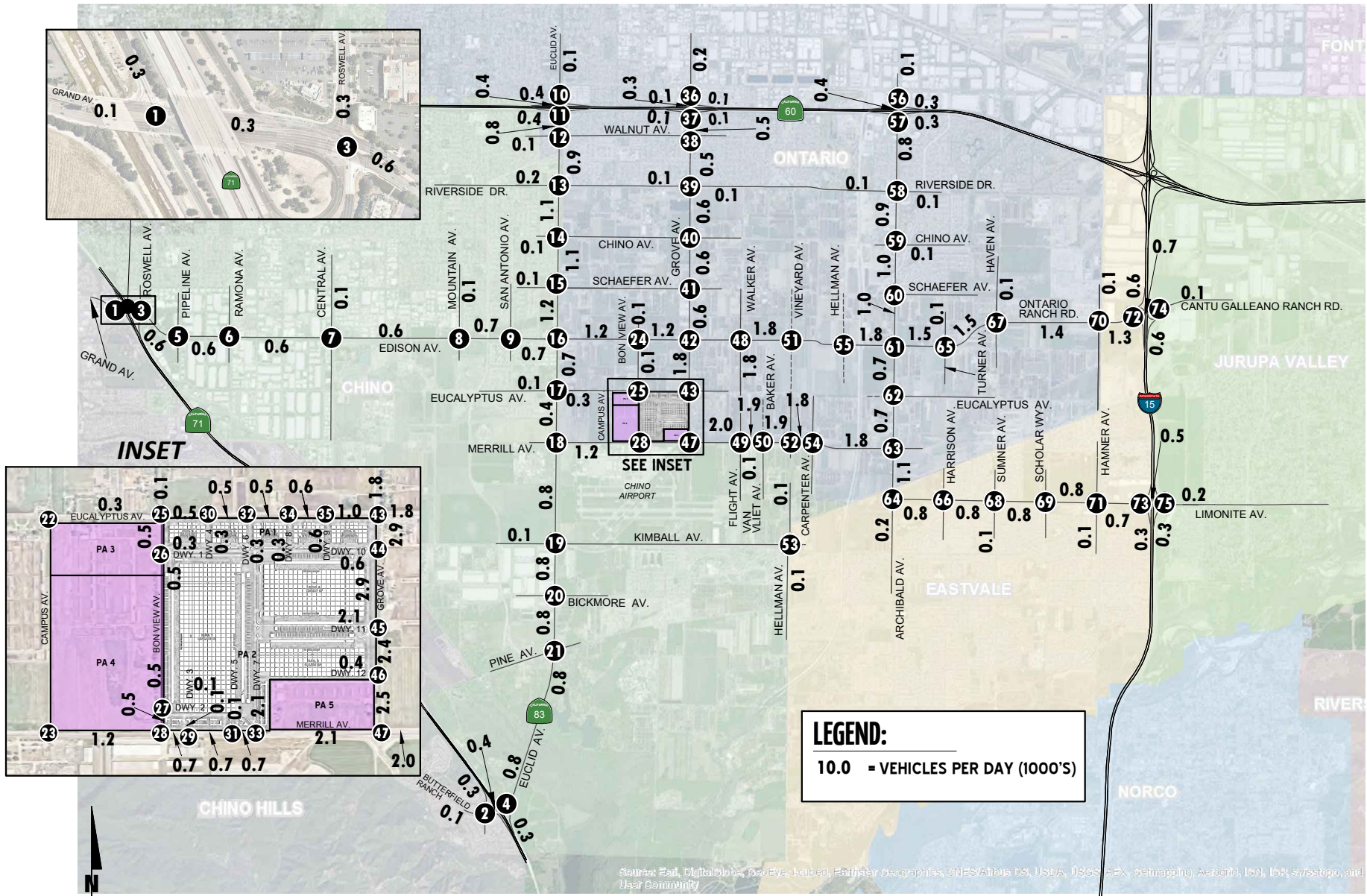
### **4.5 BACKGROUND TRAFFIC**

#### **4.5.1 OPENING YEAR CUMULATIVE CONDITIONS**

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year for 2024 traffic conditions. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies.

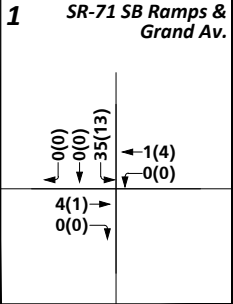
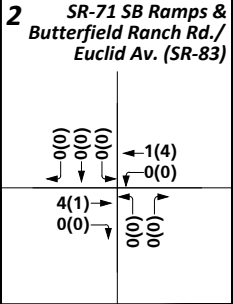
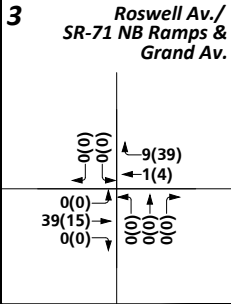
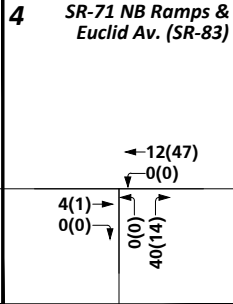
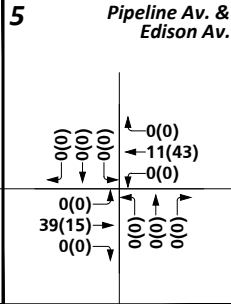
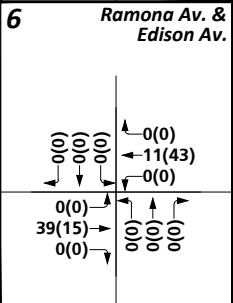
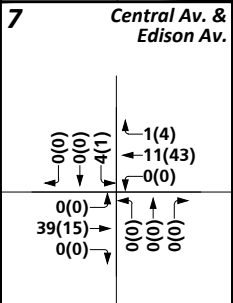
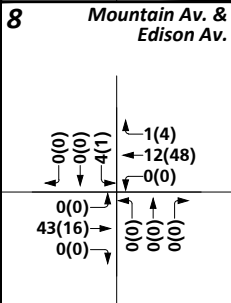
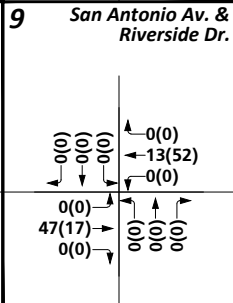
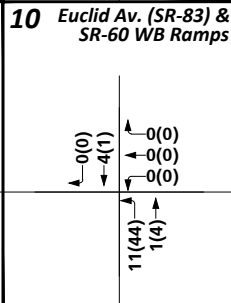
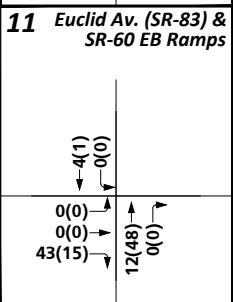
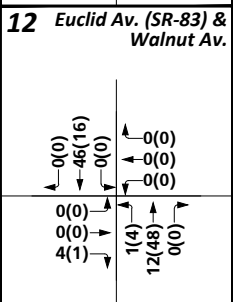
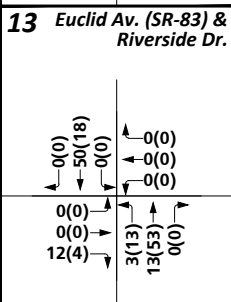
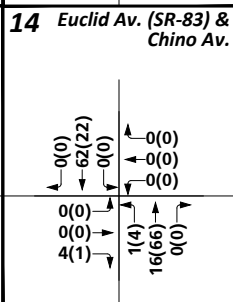
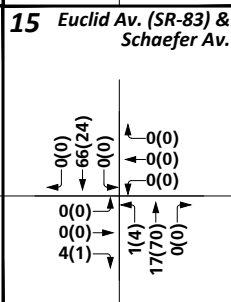
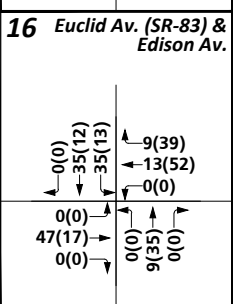
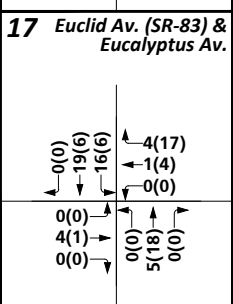
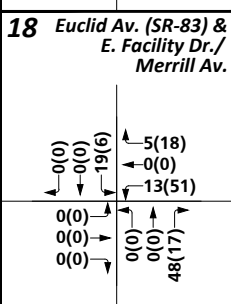
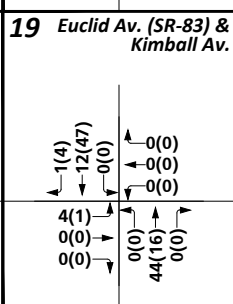
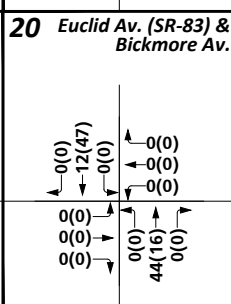
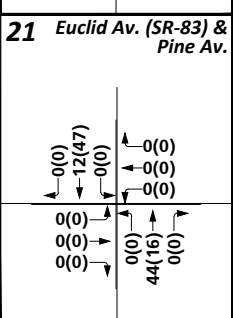
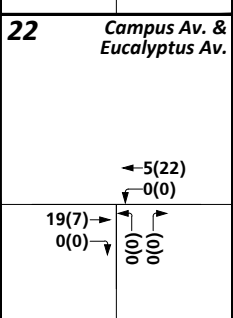
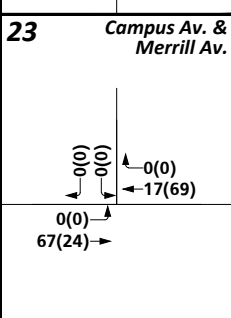
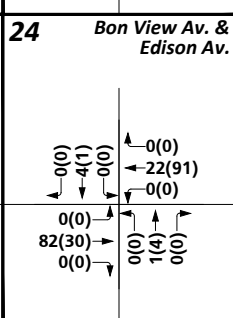
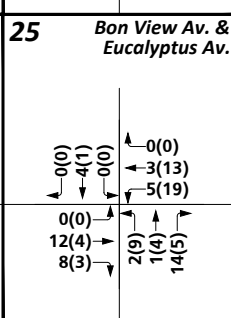
Opening Year Cumulative (2024) traffic volumes are provided in Section 6 of this report. The traffic generated by the proposed Project was then manually added to the base volume to determine Opening Year Cumulative "With Project" forecasts for each applicable phase.

EXHIBIT 4-4: PROJECT ONLY (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRS, and User Community

**EXHIBIT 4-5 (1OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> 	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> 	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> 	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> 	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> 
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> 	<p><b>7</b> Central Av. &amp; Edison Av.</p> 	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> 	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> 	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> 
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> 	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> 	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> 	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> 	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> 
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> 	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> 	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> 	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> 	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> 
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> 	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> 	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> 	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> 	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> 

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





**EXHIBIT 4-5 (2OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-5 (3OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES**

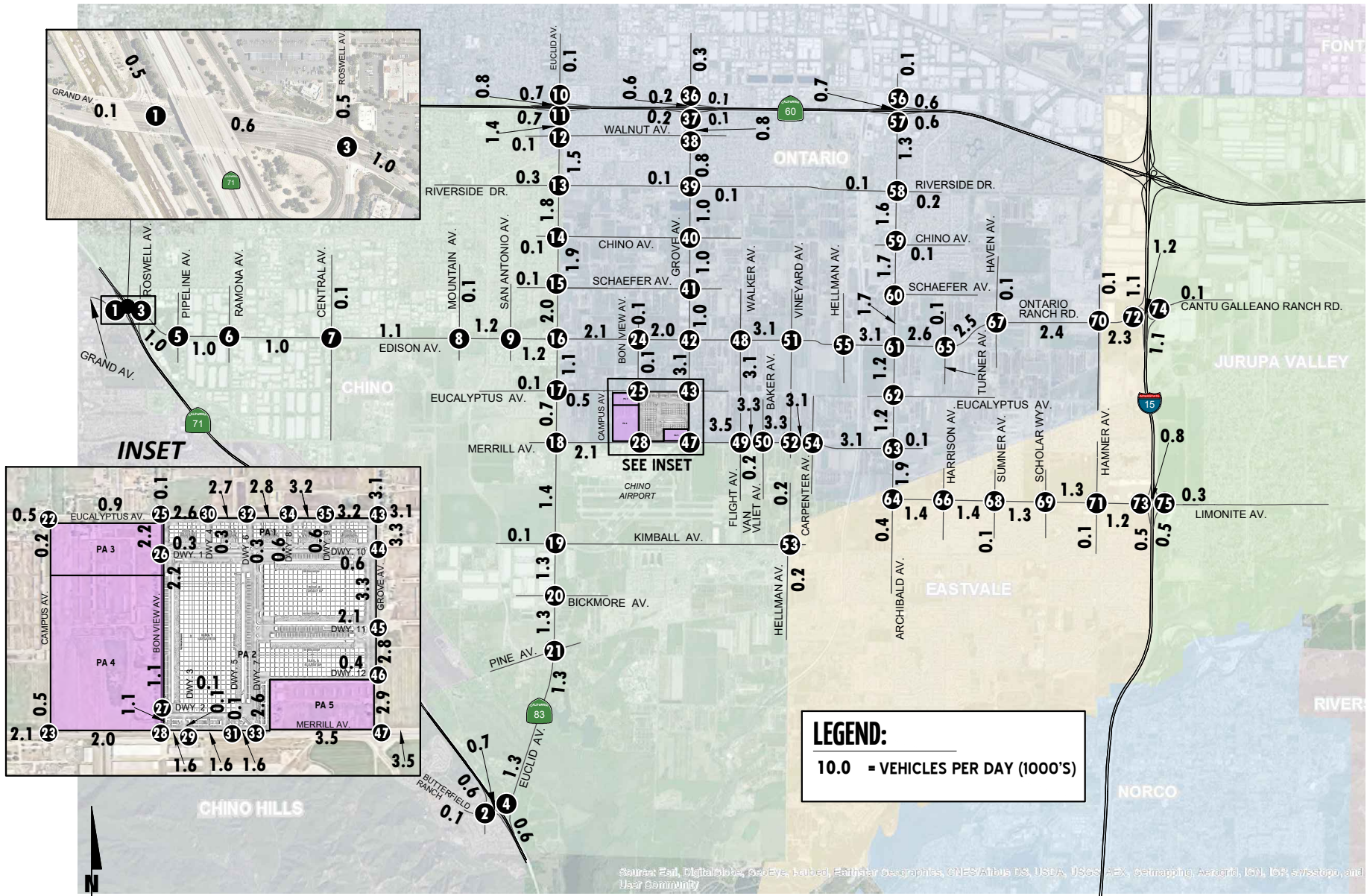
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>← 106(38) 0(0)</p> <p>28(112) → 2(9) ↓</p> <p>8(3) ↑ 0(0) ↓</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>← 0(0) 2(9) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 8(3) ↓ 0(0) ↓</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>28(112) → 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p> <p>← 0(0) 106(38) 0(0)</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>← 0(0) 4(1) ↓ 40(14) ↓</p> <p>0(0) ↑ 1(4) ↓</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>← 44(16) 0(0)</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p> <p>1(4) ↑ 11(42) ↓</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>← 0(0) 44(16) 0(0)</p> <p>0(0) ↑ 0(0) ↓ 4(1) ↓</p> <p>1(4) ↑ 12(47) ↓ 2(9) ↓</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>← 0(0) 56(20) 0(0)</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 15(60) ↓ 1(4) ↓</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>← 59(22) 0(0)</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p> <p>16(64) ↑ 0(0) ↓</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>← 47(17) 13(4) ↓ 0(0) ↓</p> <p>0(0) ↑ 74(28) ↓ 21(7) ↓</p> <p>13(52) → 20(82) ↓ 0(0) ↓</p> <p>0(0) ↑ 3(12) ↓ 5(21) ↓</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>← 33(11) 0(0)</p> <p>0(0) ↑ 0(0) ↓</p> <p>9(33) ↑ 0(0) ↓</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>← 33(11) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 4(1) ↓ 0(0) ↓</p> <p>9(33) ↑ 1(4) ↓ 18(75) ↓</p> <p>69(25) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>← 4(17) 14(58)</p> <p>0(0) ↑ 53(20) ↓ 0(0) ↓</p> <p>16(6) ↑ 0(0) ↓</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>← 4(1) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 91(33) ↓ 0(0) ↓</p> <p>1(4) → 24(99) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 53(20) ↓ 0(0) ↓</p> <p>0(0) → 14(58) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>← 4(1) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 87(32) ↓ 0(0) ↓</p> <p>1(4) → 23(94) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 49(18) ↓ 0(0) ↓</p> <p>0(0) → 13(54) ↓ 1(4) ↓</p> <p>4(1) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 49(18) ↓ 0(0) ↓</p> <p>0(0) → 13(54) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>← 4(1) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 83(30) ↓ 0(0) ↓</p> <p>1(4) → 22(90) ↓ 0(0) ↓</p> <p>0(0) ↑ 0(0) ↓ 0(0) ↓</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 45(17) ↓ 0(0) ↓</p> <p>0(0) → 12(49) ↓ 1(4) ↓</p> <p>4(1) ↑ 0(0) ↓ 0(0) ↓</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 79(29) 0(0)</p> <p>0(0) ↑ 4(1) ↓</p> <p>22(90) → 0(0) ↓</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>← 0(0) 0(0) ↓ 0(0) ↓</p> <p>0(0) ↑ 45(17) ↓ 0(0) ↓</p> <p>3(13) → 9(36) ↓</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 4(1) 0(0)</p> <p>1(4) → 21(86) ↓</p> <p>0(0) ↑ 0(0) ↓</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>← 0(0) 12(4)</p> <p>3(13) → 0(0) ↓</p> <p>34(12) ↑ 0(0) ↓ 0(0) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



EXHIBIT 4-6: PROJECT ONLY (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SCS/Ordnance Survey, and User Community

**EXHIBIT 4-7 (1of3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-7 (2of3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-7 (3of3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES**

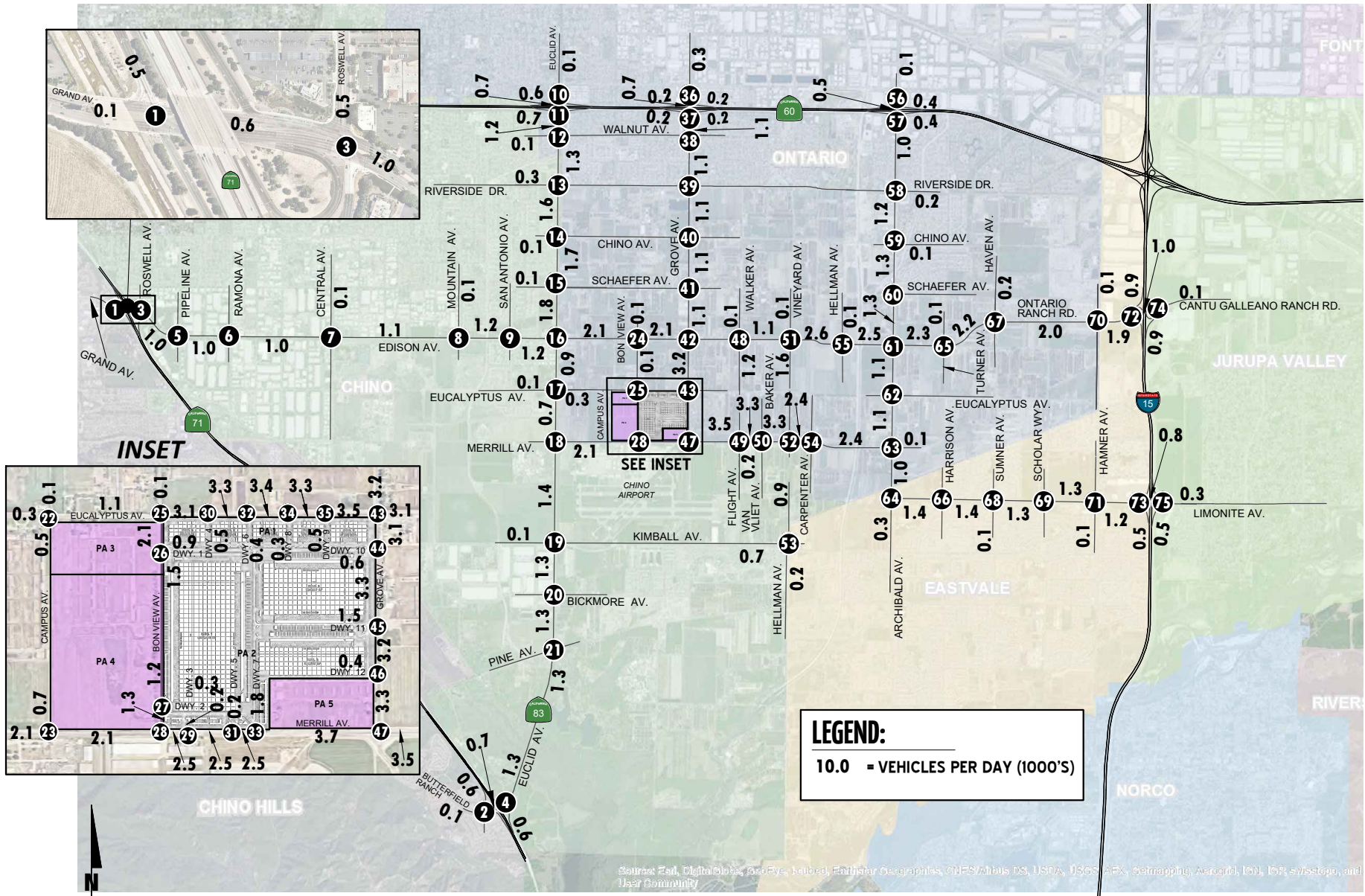
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p style="text-align: center;"><b>2040 Analysis Location</b></p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p style="text-align: center;"><b>2040 Analysis Location</b></p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p style="text-align: center;"><b>2040 Analysis Location</b></p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



EXHIBIT 4-8: PROJECT ONLY (2040) AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 4-9 (10F3): PROJECT ONLY (2040) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





**EXHIBIT 4-9 (20F3): PROJECT ONLY (2040) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-9 (30F3): PROJECT ONLY (2040) TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



#### 4.5.2 HORIZON YEAR (2040) CONDITIONS

The adopted Southern California Association of Governments (SCAG) 2020 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (May 2020) growth forecasts for the City of Ontario identifies projected growth in population of 172,200 in 2016 to 269,100 in 2045, or a 56.3% increase over the 29-year period. (13) The change in population equates to roughly a 1.55% growth rate, compounded annually. Similarly, growth over the same 29-year period in households is projected to increase by 62.0%, or a 1.67% annual growth rate. Finally, growth in employment over the same 29-year period is projected to increase by 48.6%, or a 1.38% annual growth rate.

Therefore, the annual growth rate utilized for the purposes of this analysis would appear to conservatively approximate the anticipated regional growth in traffic volumes in the City of Ontario for Opening Year Cumulative and Horizon Year (2040) traffic conditions, especially when considered along with the addition of project-related traffic. As such, the growth in traffic volumes assumed in this traffic impact analysis would tend to overstate as opposed to understate the potential deficiencies to traffic and circulation. Horizon Year (2040) With Project traffic forecasts reflects buildout of the Project.

#### 4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Ontario. The cumulative projects listed are those that would generate traffic and would contribute traffic to study area intersections. The neighboring jurisdictions of Chino, Eastvale, and Jurupa Valley have also been contacted to include key projects in their respective cities.

Exhibit 4-10 illustrates the cumulative development location map. A summary of cumulative development projects and their proposed land uses are shown on Table 4-4. If applicable, the traffic generated by individual cumulative projects was manually added to the Opening Year Cumulative forecasts to ensure that traffic generated by the listed cumulative development projects on Table 4-4 are reflected as part of the background traffic. In an effort to conduct a conservative analysis, the cumulative projects are added in conjunction with the ambient growth identified in Section 4.5.1 *Background Traffic: Opening Year Cumulative Conditions*. Cumulative ADT and peak hour intersection turning movement volumes are shown on Exhibits 4-11 and 4-12 for near-term traffic conditions.

EXHIBIT 4-10: CUMULATIVE DEVELOPMENT LOCATION MAP

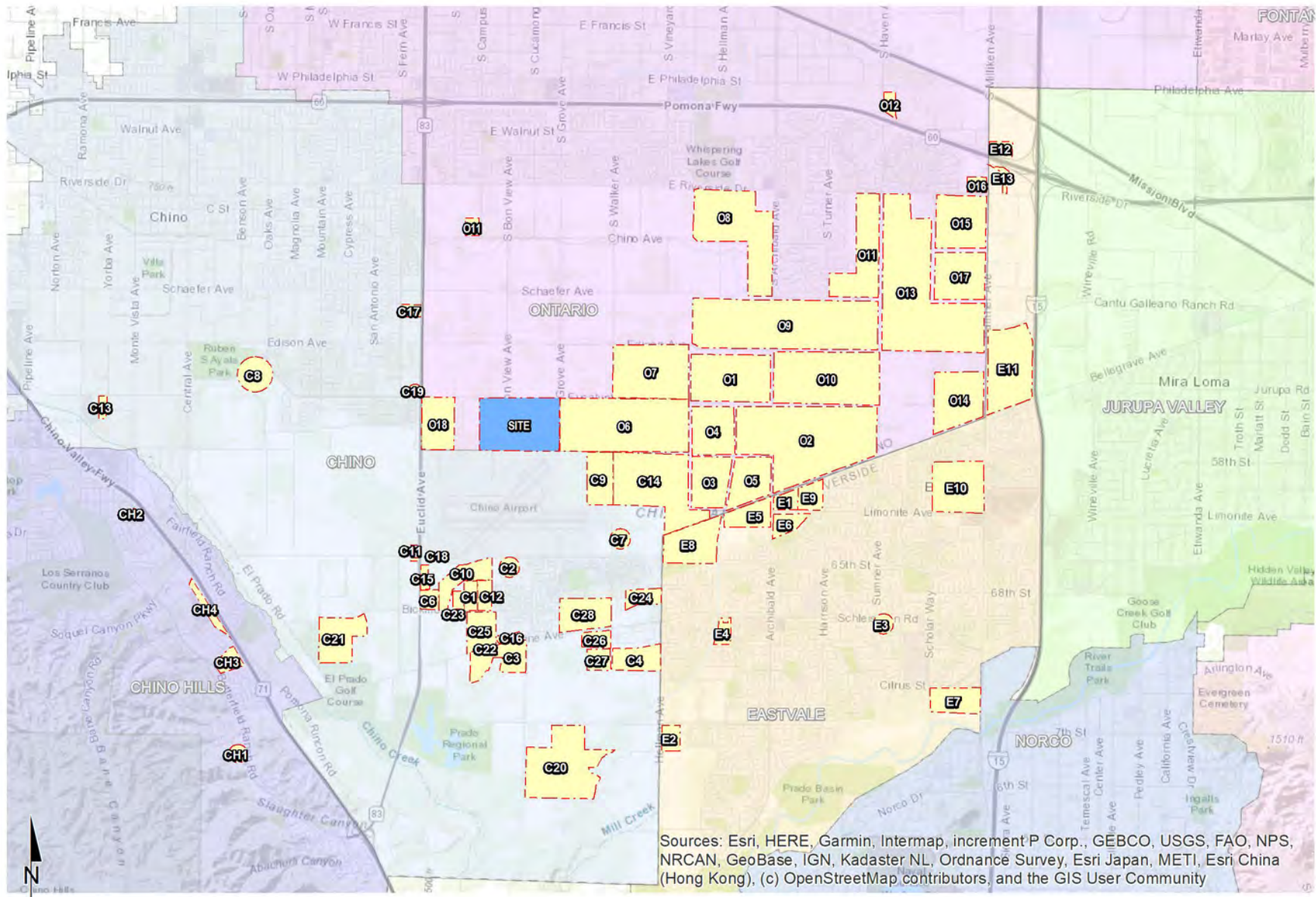
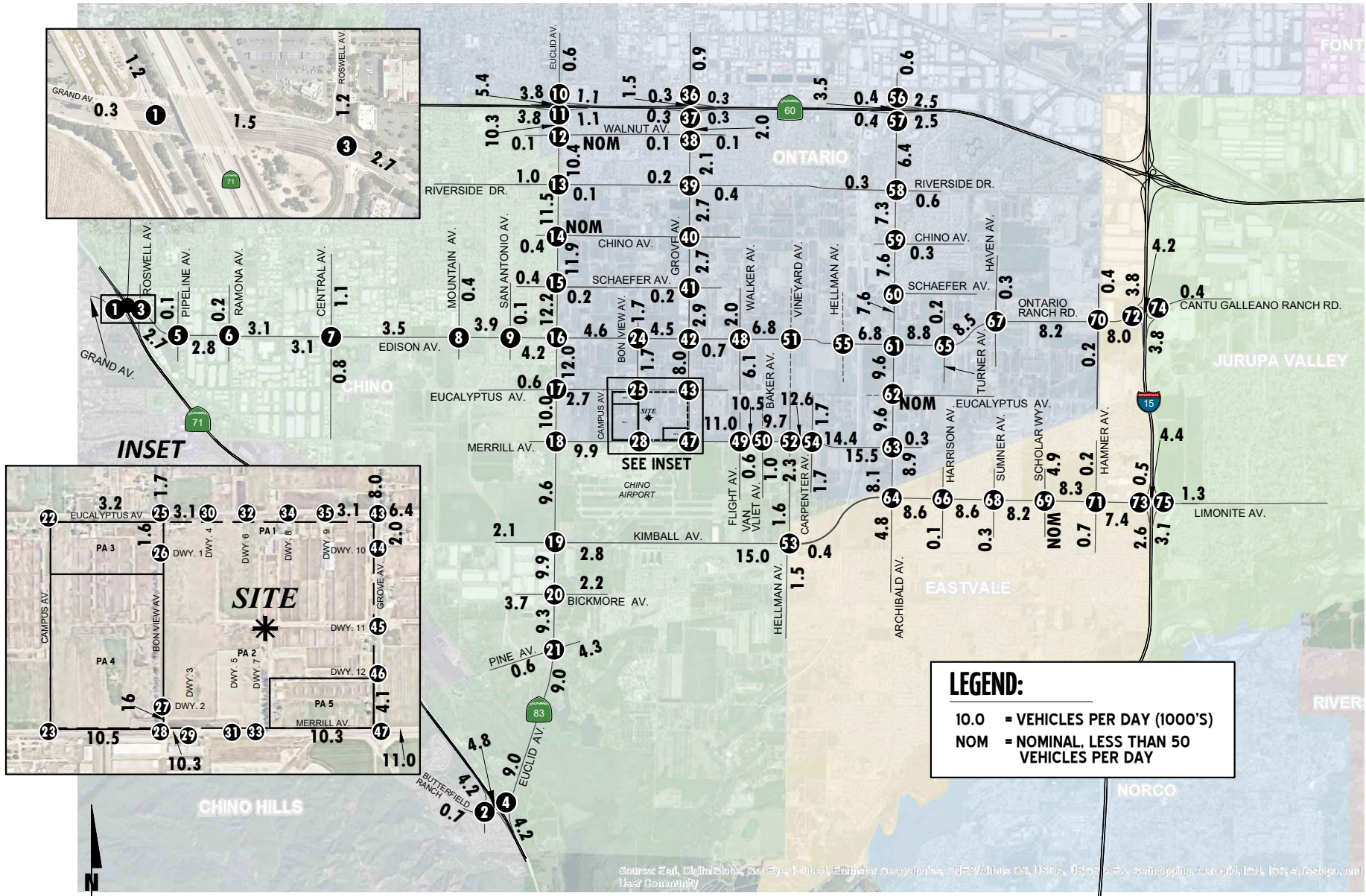


EXHIBIT 4-11: CUMULATIVE ONLY AVERAGE DAILY TRAFFIC (ADT)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRS, and User Community

**EXHIBIT 4-12 (1of3): CUMULATIVE ONLY TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p style="text-align: center;">Future Intersection</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p style="text-align: center;">Future Intersection</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-12 (2OF3): CUMULATIVE ONLY TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Future Intersection</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Future Intersection</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Future Intersection</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Future Intersection</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Future Intersection</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 4-12 (3OF3): CUMULATIVE ONLY TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>413(231) 59(49)</p> <p>196(444) 3(6)</p> <p>9(15) 42(65)</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>11(38) 12(48) 0(0) 3(13) 2(9)</p> <p>37(15) 10(5) 15(23)</p> <p>22(19) 42(18) 7(3)</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>9(32) 0(0) 16(65)</p> <p>31(11) 228(603) 7(2)</p> <p>60(22) 564(279) 66(22)</p> <p>2(6) 0(0) 19(52)</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>0(0) 30(14) 0(0) 246(101)</p> <p>10(34) 10(37)</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>278(115) 0(0)</p> <p>0(0) 0(0) 35(14)</p> <p>20(70) 79(256)</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>0(0) 313(128) 0(0)</p> <p>0(0) 0(0) 14(9)</p> <p>7(19) 98(326) 11(39)</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>0(0) 361(154) 0(0)</p> <p>0(0) 0(0) 0(0)</p> <p>0(0) 0(0) 0(0)</p> <p>0(0) 117(383) 6(20)</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>Future Intersection</p> <p>0(0) 0(0) 16(8)</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>135(52) 243(109) 0(0) 277(108) 200(81)</p> <p>36(154) 75(318) 1(0)</p> <p>0(1) 85(249) 65(205)</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>445(190) 0(0) 0(0)</p> <p>0(0) 0(0)</p> <p>150(453) 0(0)</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>385(139) 60(51) 0(0) 16(7) 0(1)</p> <p>108(384) 5(20) 122(420)</p> <p>380(165) 42(69) 0(0)</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>38(131) 89(348)</p> <p>320(122) 78(122)</p> <p>111(60) 96(113)</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>14(6) 0(0) 0(0) 463(184) 0(0)</p> <p>5(17) 136(504) 0(0)</p> <p>0(0) 0(0) 0(0)</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>0(0) 0(0) 0(0) 396(241) 0(0)</p> <p>0(0) 182(458) 3(2)</p> <p>1(3) 0(0) 0(0)</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>15(11) 0(0) 0(0) 448(174) 0(0)</p> <p>9(20) 127(485) 0(0)</p> <p>0(0) 0(0) 0(0)</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>0(0) 0(0) 0(0) 380(234) 1(0)</p> <p>0(0) 176(439) 7(19)</p> <p>15(9) 0(0) 0(1)</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>0(0) 0(0) 0(0) 380(234) 0(0)</p> <p>0(0) 176(439) 0(1)</p> <p>1(1) 0(0) 0(0)</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>14(6) 4(7) 0(0) 432(167) 0(0)</p> <p>5(18) 123(466) 0(1)</p> <p>1(0) 6(6) 0(0)</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>4(7) 0(0) 0(0) 341(207) 0(0)</p> <p>6(6) 157(390) 14(44)</p> <p>35(20) 0(0) 0(0)</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>415(155) 0(0) 17(12)</p> <p>123(466) 0(0)</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>24(41) 0(0) 0(0) 317(166) 0(0)</p> <p>62(118) 95(272)</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>17(12) 0(0)</p> <p>10(22) 113(445)</p> <p>0(0) 0(0)</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>0(0) 66(38)</p> <p>27(78) 34(36)</p> <p>250(127) 0(0) 0(0)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





**Table 4-4**  
Page 1 of 4

**Cumulative Development Land Use Summary**

#	Project/Location	Land Use <sup>1</sup>	Quantity Units <sup>2</sup>
<b>City of Ontario</b>			
O1	Parkside	SFDR	437 DU
		Multi-Family Attached (Apartments)	1,510 DU
		Shopping Center	115.000 TSF
O2	Subarea 29 & Amendment (40% complete)	SFDR	2,149 DU
		Shopping Center	87.000 TSF
O3	Colony Commerce West	High-Cube Warehouse	2213.360 TSF
		Manufacturing	737.786 TSF
O4	West Ontario Commerce Center SP	High-Cube Warehouse	1976.535 TSF
		Manufacturing	658.845 TSF
		Business Park	115.760 TSF
O5	Colony Commerce East	High-Cube Warehouse	998.680 TSF
		Manufacturing	233.129 TSF
		Warehousing	699.387 TSF
O6	Merrill Commerce Center	High-Cube Fulfillment Warehouse	7014.000 TSF
		Business Park	1441.000 TSF
O6	Ontario Ranch Commerce Center	High-Cube Cold Storage Warehouse	1159.200 TSF
		Warehousing	337.600 TSF
		Business Park	290.200 TSF
O7	Parente Home Ranch SP	SFDR	270 DU
		Condo/Townhouse	1,872 DU
		General Office	462.281 TSF
		Shopping Center	194.278 TSF
O8	Countryside	SFDR	819 DU
	Armstrong Ranch	SFDR	994 DU
O9	The Avenue	SFDR	2,020 DU
		Multi-Family Attached (Apartments)	586 DU
		Shopping Center	250.000 TSF
O10	Grand Park	SFDR	484 DU
		Multi-Family Attached (Apartments)	843 DU
O11	West Haven	SFDR	753 DU
		Shopping Center	87.000 TSF
O12	Haven Gateway	General Light Industrial	42.160 TSF
		High-Cube Warehouse	168.640 TSF
O13	Rich Haven	SFDR	2,732 DU
		Multi-Family Attached (Condo)	1,524 DU
		Shopping Center	317.400 TSF
O14	Esperanza	SFDR	914 DU
		Multi-Family Attached (Apartments)	496 DU
O15	Edenglen	SFDR	310 DU
		Multi-Family Attached (Condo)	274 DU
		Shopping Center	217.520 TSF
		Business Park	550.000 TSF
O16	PDEV10-008 - Dry Food Storage	Mini-Warehouse	17.000 TSF

**Table 4-4**  
Page 2 of 4

**Cumulative Development Land Use Summary**

#	Project/Location	Land Use <sup>1</sup>	Quantity Units <sup>2</sup>	
O17	Tuscana Village	SFDR	176 DU	
		Shopping Center	26.000 TSF	
O18	Ontario Ranch Commerce Center	High-Cube Fulfillment Warehouse	1,447.123 TSF	
		Business Park	457.904 TSF	
<b>City of Chino</b>				
C1	Bickmore Street Residential (TM 18858) (30% complete)	SFDR	185 DU	
C2	TM17574 (80% complete)	Condo/Townhouse	108 DU	
C3	Pines Community	SFDR	552 DU	
		Public Park	3.0 AC	
		Self Storage & RV Storage	120.000 TSF	
		Sports Park	41.8 AC	
C4	Tract 19980 (Homecoming Phase 4)	Apartments	454 DU	
	TTM No. 20166 & 20167	SFDR	148 DU	
C5	Farmer Boys	Brio & TTM No. 21065 & 20168 (Orchards)	SFDR	239 DU
C6	Euclid & Bickmore Warehouse	Fast-food w/ Drive-Thru	3.218 TSF	
		Shopping Center	2.300 TSF	
C7	Kimball Business Park	Warehousing	205.820 TSF	
		General Light Industrial	51.030 TSF	
		Business Park	110.620 TSF	
C8	Chaffey College Expansion	Business Park	146.550 TSF	
	College Park Commercial	Junior/Community College	93.50 AC	
C9	Chino Parcel Delivery	Shopping Center	7.50 AC	
		Parcel Delivery Facility	765.274 TSF	
C10	Altitude Business Centre	Warehousing	715.000 TSF	
		Light Industrial	255.000 TSF	
		Business Park	233.000 TSF	
		Self-Storage	110.000 TSF	
C11	Majestic Gateway	Specialty Retail	25.000 TSF	
		Pharmacy/Drugstore with Drive-Thru	13.000 TSF	
		Fast-Food with Drive-Thru	8.600 TSF	
C12	Bouma Residential	SFDR	106 DU	
		Condo/Townhouse	94 DU	
C13	Fairfield Inn & Suites (PL 17-0060 & PL 17-0061)	Hotel	111 RM	
C14	Watson Industrial Park (40% complete)	High-Cube Warehouse	3,889.900 TSF	
C15	Chino Business Park	General Light Industrial	165.500 TSF	
		Business Park	21.500 TSF	
C16	Flores Site	Shopping Center	4.000 TSF	
		Gas Station w/ convenience store	16 VFP	
		Express Car Wash	5.000 TSF	

**Table 4-4**  
Page 3 of 4

**Cumulative Development Land Use Summary**

#	Project/Location	Land Use <sup>1</sup>	Quantity Units <sup>2</sup>
C17	Brewart Residential (Stonebrook - TM 18923)	SFDR	127 DU
C18	Archibald's (PL 17-0037)	Fast-Food with Drive-Thru	3.147 TSF
C19	TM 18972 (80% complete)	SFDR	147 DU
C20	Rancho Miramonte	SFDR	691 DU
		Condo/Townhouse	132 DU
		Neighborhood Retail	21.780 TSF
		Church	400 SEAT
C21	Majestic Chino Heritage	High-Cube Fulfillment Warehouse	1982.700 TSF
		High-Cube Cold Storage Warehouse	100.000 TSF
C22	Church	Church	47.979 TSF
		Daycare	190 STU
C23	Appesetche Residential	SFDR	60 DU
		Condo/Townhouse	160 DU
C24	Tract 19951, 19952, 19953, 19935 & 18479	SFDR	151 DU
		Condo/Townhouse	150 DU
C25	Ag. Buffer, Bungalow, Lic. Product, Liberty Deluxe, Lyon 2 & 3	SFDR	474 DU
C26	The Preserve Town Center (Blocks 6 and 7)	Multifamily Housing	549 DU
		Office	16.300 TSF
		Shopping Center	36.800 TSF
		Pharmacy with Drive-Thru	12.900 TSF
		Supermarket	45.000 TSF
		Fast-Food Restaurant with Drive-Thru	6.500 TSF
		Fast Casual Restaurant	13.750 TSF
		Quality Restaurant	13.750 TSF
C27	The Preserve Civic Center	Elementary School	1,200 STU
		Library	10.00 AC
		Community Center	10.00 AC
		Park	8.00 AC
C28	Falloncrest at the Preserve	Multifamily Housing (Low-Rise)	698 DU
		Multifamily Housing (Mid-Rise)	440 DU
		Public Parks	21.60 AC
		General Office	77.597 TSF
		Commercial Retail	77.597 TSF

**Table 4-4**  
Page 4 of 4

**Cumulative Development Land Use Summary**

#	Project/Location	Land Use <sup>1</sup>	Quantity Units <sup>2</sup>
<b>City of Eastvale</b>			
E1	The Merge	Warehousing	336.501 TSF
		Shopping Center	4.750 TSF
		Supermarket	30.000 TSF
		Gas Station w/ convenience store	16 VFP
		Pharmacy/Drugstore with Drive-Thru	14.600 TSF
		Fast-Food with Drive-Thru	6.000 TSF
		Automated Car Wash	4.000 TSF
		Fast-Food Without Drive-Thru	7.750 TSF
		Coffee/Donut Shop With Drive-Thru	2.500 TSF
E2	TR29997	SFDR	122 DU
E3	13-0632 - Sumner Residential (Stratham Homes)	SFDR	129 DU
E4	TR35751	Condo/Townhouse	243 DU
E5	PP23219 (PM35865) (50% complete)	General Light Industrial	738.430 TSF
E6	Eastvale Shopping Center	Free-Standing Discount Superstore	192.000 TSF
		Specialty Retail	9.200 TSF
		Fast-Food Without Drive-Thru	7.200 TSF
		Coffee/Donut Shop w/ Drive Thru	2.000 TSF
		Fast-Food with Drive-Thru	3.500 TSF
		Gas Station w/ convenience store and car wash	16 VFP
E7	Van Leeuwen	SFDR	224 DU
E8	SP00358 - The Ranch at Eastvale	Shopping Center	267.200 TSF
		General Light Industrial	801.500 TSF
		Business Park	1,121.100 TSF
E9	SC Limonite, LLC	SFDR	330 TSF
E10	Leal Master Plan	Lifestyle Center (Commercial)	1,300.000 TSF
		General Commercial	225.000 TSF
		Office	920.000 TSF
		Hotel	450 RM
		High Density Residential	500-660 DU
E11	Eastvale Commerce Center	Shopping Center	650.000 TSF
E12	S. Milliken Warehouse	High-Cube Warehouse	280.000 TSF
E13	15-1508 - Industrial Warehouse	Warehousing	155.000 TSF
<b>City of Chino Hills</b>			
CH1	Vila Borba Specific Plan (TR 16414)	SFDR	172 DU
CH2	Country Club Villas	Condo/Townhouse	46 DU
CH3	The Goddard School	Daycare	10.587 TSF
CH4	Heritage Professional Center	Hospital	55.000 TSF
		Medical Office Building	86.952 TSF
		Hotel	120 RM
		Shopping Center	38.848 TSF
		Restaurant	7.200 TSF

<sup>1</sup> SFDR = Single Family Detached Residential

<sup>2</sup> TSF = Thousand Square Feet; DU = Dwelling Unit; VFP = Vehicle Fueling Position ; AC = Acres; RM = Rooms

#### 4.7 HORIZON YEAR (2040) VOLUME DEVELOPMENT

Traffic projections for Horizon Year (2040) without Project conditions were derived from the San Bernardino Transportation Analysis Model (SBTAM) using accepted procedures for model forecast refinement and smoothing for study area intersections located within the County of San Bernardino. The current version of the SBTAM (Version 2.20, March 2019) reflects the local input in the adopted 2020 SCAG RTP within the County of San Bernardino.

The traffic forecasts reflect the area-wide growth anticipated between Existing (2021) conditions and Horizon Year (2040) traffic conditions. In most instances the traffic model zone structure is not designed to provide accurate turning movements along arterial roadways unless refinement and reasonableness checking is performed. Therefore, the Horizon Year (2040) peak hour forecasts were refined using the model derived long range forecasts, base (validation) year model forecasts, along with existing peak hour traffic count data collected at each analysis location in January 2019. The SBTAM has a base (validation) year of 2012 and a horizon (future forecast) year of 2040. The difference in model volumes (2040-2012) defines the growth in traffic over the 28-year period. Similarly, the Riverside Transportation Analysis Model (RivTAM) has a base (validation) year of 2012 and a horizon (future forecast) year of 2040.

The refined future peak hour approach and departure volumes obtained from the model output data are then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program (NCHRP Report 785), along with initial estimates of turning movement proportions. A linear programming algorithm is used to calculate individual turning movements which match the known directional roadway segment forecast volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The SBTAM uses an AM peak period-to-peak hour factor of 0.35 and a PM peak period-to-peak hour factor of 0.27. These factors represent the relationship of the highest single AM peak hour to the modeled 3-hour AM peak period (an even distribution would result in a factor of 0.33) and the highest single PM peak hour to the modeled 4-hour PM peak period (an even distribution would result in a factor of 0.25). The model data from RivTAM represents peak hour data and therefore did not require adjustments.

Typically, the model growth is prorated and is subsequently added to the existing (base validation) traffic volumes to represent Horizon Year traffic conditions. In an effort to conduct a conservative analysis, reductions to traffic forecasts from either Existing or Opening Year Cumulative traffic conditions were not assumed as part of this analysis. As such, in conjunction with the addition of cumulative projects that are not consistent with the General Plan, additional growth has also been applied on a movement-by-movement basis, where applicable, to estimate reasonable Horizon Year (2040) forecasts. Horizon Year (2040) turning volumes were compared to Opening Year Cumulative (2024) volumes in order to ensure a minimum growth as a part of the refinement process. The minimum growth includes any additional growth between Opening Year Cumulative (2024) and Horizon Year (2040) traffic conditions that is not accounted for by the traffic generated by cumulative development projects and ambient growth rates assumed between Existing (2021) and Opening Year Cumulative (2024) conditions. Adjustments have not

been made to study area intersections that may be affected by new future roadway connections (such as the extension of Pine Avenue or the extension of Kimball Avenue/Limonite Avenue), where travel patterns would likely get affected and forecasts may potentially decrease from the Opening Year Cumulative conditions. Future estimated peak hour traffic data was used for new intersections and intersections with an anticipated change in travel patterns to further refine the Horizon Year (2040) peak hour forecasts.

The future Horizon Year (2040) Without Project peak hour turning movements were then reviewed by Urban Crossroads, Inc. for reasonableness, and in some cases, were adjusted to achieve flow conservation, reasonable growth, and reasonable diversion between parallel routes. Flow conservation checks ensure that traffic flow between two closely spaced intersections, such as two adjacent driveway locations, is verified in order to make certain that vehicles leaving one intersection are entering the adjacent intersection and that there is no unexplained loss of vehicles. The result of this traffic forecasting procedure is a series of traffic volumes which are suitable for traffic operations analysis.

The SBTAM and RivTAM do not include a truck component or have data that is unusually low. As such, in an effort to conduct a conservative analysis, the presence of trucks has been accounted for based on the manual volume adjustments made to demonstrate growth above Opening Year Cumulative (2024) traffic forecasts, which are presented and evaluated in PCE (see Section 3.7 *Existing Traffic Counts* for discussion on PCE). As such, the Horizon Year (2040) forecasts are also assumed to be in PCE for the purposes of this analysis. Post-processing worksheets for Horizon Year (2040) without Project traffic conditions are provided in Appendix 4.1.

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## 5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Existing plus Project (E+P) conditions and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses. E+P traffic conditions has been evaluated for each Phase.

### 5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

### 5.2 EXISTING PLUS PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus Project traffic. The ADT and weekday AM and PM peak hour intersection turning movement volumes which can be expected for E+P traffic conditions are shown on the following exhibits:

- Exhibits 5-1 and 5-2: E+P (Phase 1) Conditions
- Exhibits 5-3 and 5-4: E+P (Project Buildout) Conditions

### 5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TIA.

#### 5.3.1 E+P (PHASE 1)

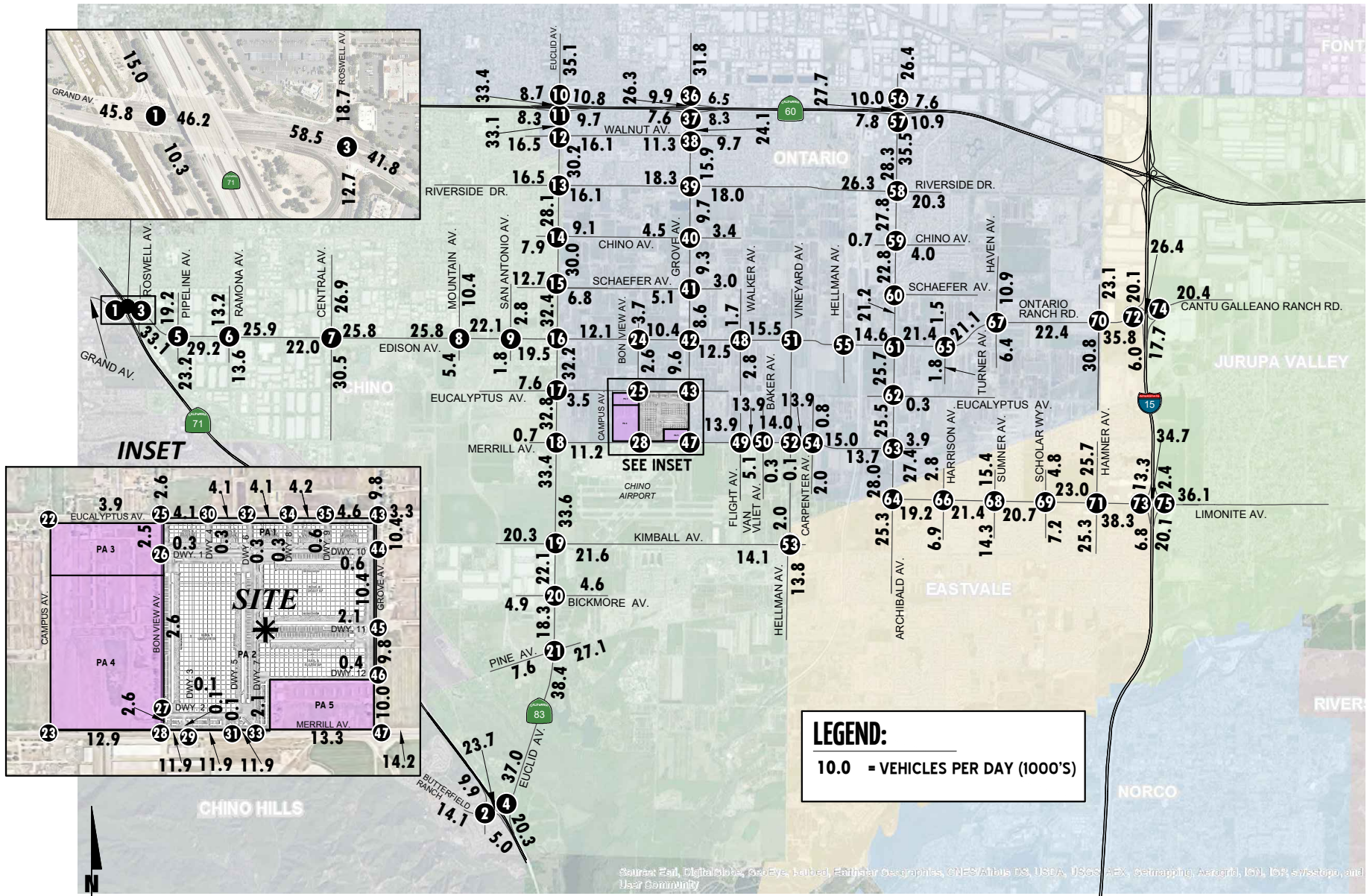
The intersection analysis results are summarized on Table 5-1 for E+P (Phase 1) traffic conditions, which indicate that the following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS E AM and PM peak hours

Consistent with Table 5-1, a summary of the peak hour intersection LOS is shown on Exhibit 5-5 for E+P (Phase 1) traffic conditions. The intersection operations analysis worksheets for E+P (Phase 1) traffic conditions are included in Appendix 5.1 of this TA.



EXHIBIT 5-1: E+P (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRS, and User Community

**EXHIBIT 5-2 (1of3): E+P (PHASE 1) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>310(452) 2(1) 711(735) 1349(1316) 51(283)</p> <p>744(1340) 204(538)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>37(69) 27(68) 594(626) 269(250) 202(124)</p> <p>552(730) 30(60)</p> <p>18(18) 236(130)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>644(754) 43(159) 34(104) 866(1448)</p> <p>325(358) 959(1422) 172(306)</p> <p>457(363) 70(133) 60(206)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>884(905) 722(349)</p> <p>638(803) 295(152)</p> <p>42(124) 618(893)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>50(137) 321(535) 52(122) 37(70) 684(850) 149(225)</p> <p>89(243) 724(911) 135(232)</p> <p>137(274) 195(423) 97(161)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>75(89) 395(374) 37(46) 48(47) 824(863) 40(67)</p> <p>78(105) 700(994) 41(102)</p> <p>34(77) 277(401) 49(61)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>221(128) 859(747) 56(85) 88(67) 857(552) 277(240)</p> <p>114(204) 419(735) 48(75)</p> <p>66(73) 713(912) 288(383)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>242(208) 76(166) 63(93) 88(74) 846(587) 9(34)</p> <p>126(198) 431(958) 36(78)</p> <p>82(37) 151(88) 40(27)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>91(49) 37(41) 12(10) 20(12) 724(621) 3(6)</p> <p>46(82) 475(906) 25(37)</p> <p>41(21) 73(29) 14(9)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>434(460) 873(957) 406(383) 3(2) 149(473)</p> <p>290(243) 855(992)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>961(1080) 354(359)</p> <p>376(367) 2(1) 273(277)</p> <p>769(865) 513(411)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>61(152) 899(924) 160(272) 208(138) 311(363) 69(67)</p> <p>114(105) 295(363) 111(134)</p> <p>130(198) 947(1003) 45(76)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>153(195) 767(761) 183(133) 101(59) 485(402) 180(180)</p> <p>141(138) 310(446) 59(73)</p> <p>65(80) 742(898) 155(247)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>92(71) 862(870) 49(24) 29(9) 143(108) 65(77)</p> <p>96(89) 163(275) 38(47)</p> <p>48(39) 838(1126) 123(230)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>129(118) 843(932) 29(25) 10(23) 178(61) 111(76)</p> <p>154(280) 71(281) 59(180)</p> <p>110(93) 845(1093) 29(72)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>140(152) 739(1067) 88(96) 58(73) 410(296) 29(31)</p> <p>105(200) 263(436) 87(266)</p> <p>198(135) 785(1000) 30(56)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>39(67) 865(1185) 35(46) 30(24) 157(25) 28(7)</p> <p>69(34) 30(161) 149(207)</p> <p>180(111) 980(1073) 10(17)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>42(1) 867(1143) 134(255) 213(139) 49(2) 214(225)</p> <p>3(11) 6(30) 11(10)</p> <p>11(2) 954(1051) 186(234)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>345(197) 534(746) 187(448) 290(162) 735(295) 31(50)</p> <p>93(291) 221(735) 22(40)</p> <p>87(63) 767(834) 23(32)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>127(112) 523(664) 34(80) 132(50) 199(20) 170(36)</p> <p>22(102) 8(99) 14(42)</p> <p>24(18) 614(605) 21(78)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>11(2) 578(706) 32(54) 23(21) 298(66) 936(463)</p> <p>6(5) 166(433) 32(71)</p> <p>39(31) 630(675) 655(1120)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>218(85) 0(0)</p> <p>66(229) 0(0)</p> <p>0(0) 0(0)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>0(0) 0(0) 0(0) 0(0) 528(388)</p> <p>0(0) 298(634)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>36(45) 92(81) 18(16) 15(6) 482(347) 14(6)</p> <p>46(60) 265(471) 11(17)</p> <p>14(12) 73(88) 9(6)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>40(12) 57(63) 19(16) 14(8) 160(62) 6(21)</p> <p>14(14) 43(208) 10(7)</p> <p>19(11) 56(91) 16(12)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 5-2 (2of3): E+P (PHASE 1) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Approach: 61(88) ↓, 12(4) ↓, 2(9) ↑, 3(12) ↑                  Departure: 89(106) ↑, 11(4) ↑</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Approach: 64(100) ↓, 1(4) ↑                  Departure: 99(106) ↑, 7(3) ↑</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>Approach: 44(63) ↓, 20(36) ↓, 53(28) ↑, 484(325) ↑                  Departure: 53(81) ↑, 245(553) ↑</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Approach: 1(4) ↓, 1(4) ↓, 4(1) ↑, 536(349) ↑                  Departure: 4(1) ↑, 261(588) ↑</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Approach: 178(82) ↓, 9(3) ↓                  Departure: 69(233) ↑, 9(3) ↑, 2(10) ↓, 2(10) ↓</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Approach: 1(4) ↓, 1(4) ↓, 4(1) ↑, 538(346) ↑                  Departure: 4(1) ↑, 258(590) ↑</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Approach: 184(75) ↓, 9(3) ↓                  Departure: 66(241) ↑, 5(2) ↑, 3(10) ↓, 2(10) ↓</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Approach: 4(18) ↓, 30(125) ↓, 118(44) ↑, 537(330) ↑                  Departure: 21(7) ↑, 238(587) ↑</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Approach: 192(72) ↓, 13(5) ↓                  Departure: 63(249) ↑, 6(2) ↑, 2(6) ↓, 4(15) ↓</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Approach: 204(71) ↓, 17(6) ↓                  Departure: 60(261) ↑, 6(2) ↑, 2(6) ↓, 13(54) ↓</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>Approach: 465(603) ↓, 603(873) ↓, 483(282) ↑, 0(0) ↑, 193(231) ↑                  Departure: 209(189) ↑, 948(778) ↑</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>Approach: 497(784) ↓, 265(389) ↓                  Departure: 566(330) ↑, 1(0) ↑, 165(273) ↑, 624(598) ↑, 291(274) ↑</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>Approach: 100(166) ↓, 442(569) ↓, 92(169) ↓, 184(122) ↑, 191(157) ↑, 14(17) ↑                  Departure: 165(139) ↑, 195(290) ↑, 54(70) ↑, 46(78) ↑, 463(527) ↑, 11(20) ↑</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>Approach: 158(152) ↓, 240(259) ↓, 75(133) ↓, 95(97) ↑, 723(535) ↑, 56(37) ↑                  Departure: 128(155) ↑, 369(570) ↑, 26(18) ↑, 21(25) ↓, 235(353) ↓, 48(65) ↓</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>Approach: 24(22) ↓, 277(275) ↓, 33(19) ↓, 19(29) ↑, 69(35) ↑, 7(6) ↑                  Departure: 52(73) ↑, 80(168) ↑, 27(24) ↑, 33(33) ↓, 242(363) ↓, 8(14) ↓</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>Approach: 32(43) ↓, 237(238) ↓, 26(25) ↓, 24(28) ↑, 92(42) ↑, 23(2) ↑                  Departure: 28(92) ↑, 34(129) ↑, 19(83) ↑, 30(18) ↓, 214(323) ↓, 8(16) ↓</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>Approach: 20(21) ↓, 184(188) ↓, 44(128) ↓, 27(35) ↑, 462(246) ↑, 59(58) ↑                  Departure: 28(35) ↑, 175(403) ↑, 87(37) ↑, 36(103) ↓, 182(285) ↓, 20(126) ↓</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>Approach: 61(37) ↓, 266(245) ↓, 7(5) ↓, 7(10) ↑, 91(25) ↑, 109(39) ↑                  Departure: 22(104) ↑, 38(138) ↑, 14(74) ↑, 68(16) ↓, 232(413) ↓, 24(78) ↓</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Approach: 39(14) ↓, 351(344) ↓                  Departure: 6(25) ↑, 15(5) ↑, 326(506) ↑</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Approach: 90(34) ↓, 267(335) ↓                  Departure: 22(91) ↑, 11(44) ↑, 35(12) ↓, 318(420) ↓</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Approach: 16(6) ↓, 262(373) ↓                  Departure: 7(29) ↑, 354(432) ↑</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>Approach: 133(109) ↓, 136(254) ↓, 259(170) ↑, 523(264) ↑                  Departure: 95(262) ↑, 174(451) ↑</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>Approach: 8(9) ↓, 11(10) ↓, 14(61) ↓, 129(27) ↑, 360(325) ↑, 222(53) ↑                  Departure: 11(12) ↑, 206(626) ↑, 5(1) ↑, 2(2) ↓, 14(14) ↓, 37(179) ↓</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>Approach: 579(319) ↓, 89(81) ↓                  Departure: 225(589) ↑, 77(112) ↑, 167(100) ↓, 86(113) ↓</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>Approach: 675(377) ↓, 11(5) ↓                  Departure: 294(725) ↑, 17(3) ↑, 6(6) ↓, 16(10) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 5-2 (3OF3): E+P (PHASE 1) TRAFFIC VOLUMES**

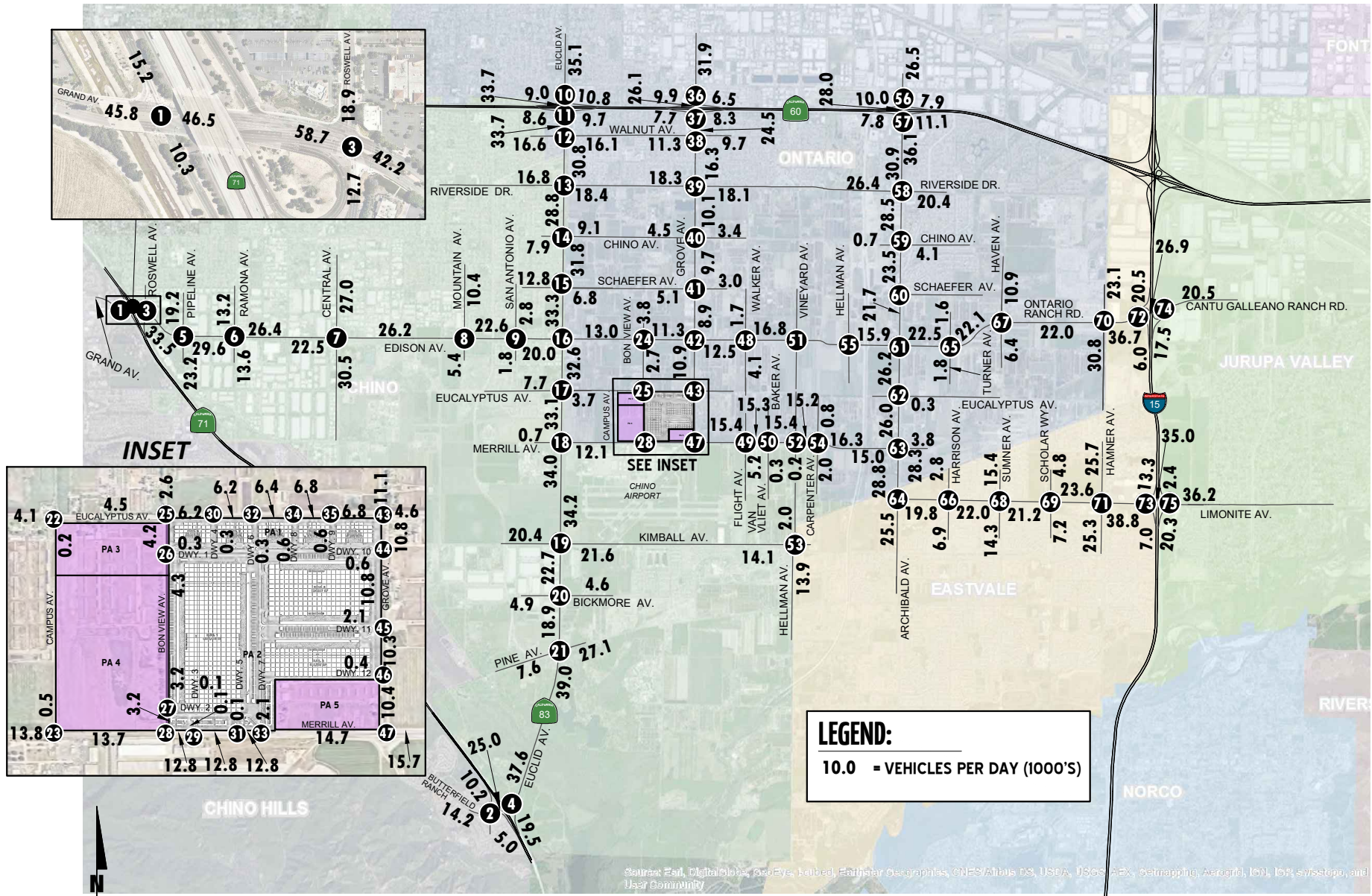
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>← 669(384) 0(0)</p> <p>309(728) → 2(9) ↓</p> <p>8(3) ↑ 0(0) ↓</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>← 7(78) ← 13(49) ← 0(0)</p> <p>14(12) ↓ 0(0) ↓ 0(0) ↓</p> <p>234(746) →</p> <p>833(286) ↑ 36(19) ↑ 0(0) ↓</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>← 7(1) ← 0(4) ← 104(45)</p> <p>8(4) ↓ 277(721) ↓ 15(18) ↓</p> <p>34(4) ↑ 655(326) ↑ 83(12) ↑</p> <p>10(27) ↓ 0(4) ↓ 62(95) ↓</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>← 129(413) ← 322(1022)</p> <p>← 414(233) ← 3(5) ← 379(354)</p> <p>626(378) ↑ 937(438) ↑</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>← 597(1024) ← 104(353)</p> <p>294(78) → 2(0) → 440(542) →</p> <p>1267(739) ↑ 536(527) ↑</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>← 235(241) ← 436(828) ← 128(295)</p> <p>← 168(111) ← 459(415) ← 84(139)</p> <p>216(209) ↓ 287(604) ↓ 229(334) ↓</p> <p>336(292) ↑ 992(576) ↑ 42(56) ↓</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>← 20(11) ← 622(1015) ← 117(149)</p> <p>← 241(109) ← 2(0) ← 72(20)</p> <p>83(18) ↓ 3(1) ↓ 24(5) ↓</p> <p>107(17) ↑ 969(727) ↑ 36(41) ↑</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>← 543(967) ← 0(0)</p> <p>← 0(0) ← 0(0)</p> <p>1044(711) ↑ 0(0) ↓</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>← 133(81) ← 367(763) ← 63(138)</p> <p>← 118(66) ← 488(206) ← 298(272)</p> <p>35(128) ↓ 182(599) ↓ 34(119) ↓</p> <p>153(68) ↑ 944(518) ↑ 347(300) ↑</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>← 677(1144) ← 21(10)</p> <p>← 14(8) ← 7(2)</p> <p>1431(877) ↑ 9(1) ↓</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>← 208(146) ← 452(955) ← 32(74)</p> <p>← 122(48) ← 47(24) ← 72(44)</p> <p>158(240) ↓ 17(73) ↓ 102(471) ↓</p> <p>480(141) ↑ 1108(555) ↑ 35(40) ↓</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>← 441(852) ← 185(618)</p> <p>← 826(263) ← 261(313)</p> <p>814(514) ↑ 281(344) ↑</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>← 61(22) ← 15(7) ← 29(26)</p> <p>← 16(12) ← 912(554) ← 35(29)</p> <p>25(47) ↓ 479(1038) ↓ 28(38) ↓</p> <p>50(25) ↑ 24(7) ↑ 34(33) ↑</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>← 70(28) ← 112(46) ← 19(16)</p> <p>← 18(6) ← 773(491) ← 147(223)</p> <p>40(80) ↓ 407(826) ↓ 20(56) ↓</p> <p>138(28) ↑ 103(44) ↑ 208(153) ↑</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>← 63(110) ← 53(258) ← 115(168)</p> <p>← 80(129) ← 764(470) ← 18(53)</p> <p>131(116) ↓ 507(848) ↓ 26(65) ↓</p> <p>56(21) ↑ 189(87) ↑ 76(23) ↑</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>← 147(194) ← 184(438) ← 94(114)</p> <p>← 31(47) ← 624(507) ← 112(226)</p> <p>254(226) ↓ 436(617) ↓ 27(87) ↓</p> <p>179(41) ↑ 381(208) ↑ 107(137) ↑</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>← 28(29) ← 189(133) ← 51(28)</p> <p>← 26(60) ← 576(707) ← 42(131)</p> <p>31(41) ↓ 655(792) ↓ 67(44) ↓</p> <p>96(43) ↑ 173(95) ↑ 98(124) ↑</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>← 62(94) ← 184(796) ← 123(437)</p> <p>← 171(78) ← 711(397) ← 235(583)</p> <p>84(64) ↓ 482(774) ↓ 78(271) ↓</p> <p>163(199) ↑ 677(367) ↑ 471(235) ↑</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>← 102(216) ← 352(622) ← 146(187)</p> <p>← 84(153) ← 380(412) ← 170(388)</p> <p>163(297) ↓ 484(528) ↓ 43(73) ↓</p> <p>159(190) ↑ 669(568) ↑ 249(172) ↑</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 999(915) ← 257(261)</p> <p>← 130(402) ← 479(417)</p> <p>867(1054) ↓ 275(477) ↓</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>← 400(405) ← 0(1) ← 141(128)</p> <p>← 641(967) ← 0(0)</p> <p>1054(1133) ↓ 514(554) ↓</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>← 382(630) ← 308(252)</p> <p>368(552) ↓ 756(763) ↓</p> <p>228(188) ↓ 239(191) ↓</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>← 373(192) ← 1068(1117)</p> <p>498(811) ↓ 697(451) ↓</p> <p>204(377) ↓ 0(2) ↓ 312(755) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



EXHIBIT 5-3: E+P (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and User Community

**EXHIBIT 5-4 (1OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>310(452) 2(1) 737(744)</p> <p>1350(1320) 51(283)</p> <p>747(1341) 204(538)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>37(69) 27(68) 594(626)</p> <p>270(254) 202(124)</p> <p>555(731) 30(60)</p> <p>18(18) 236(130)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>644(754) 43(159)</p> <p>41(133) 867(1452)</p> <p>325(358) 987(1432) 172(306)</p> <p>457(363) 70(133) 60(206)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>892(939) 722(349)</p> <p>641(804) 295(152)</p> <p>42(124) 647(903)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>50(137) 321(535) 52(122)</p> <p>37(70) 691(882) 149(225)</p> <p>89(243) 752(921) 135(232)</p> <p>137(274) 195(423) 97(161)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>75(89) 395(374) 37(46)</p> <p>48(47) 831(895) 40(67)</p> <p>78(105) 728(1004) 41(102)</p> <p>34(77) 277(401) 49(61)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>221(128) 859(747) 59(86)</p> <p>89(71) 864(584) 277(240)</p> <p>114(204) 447(745) 48(75)</p> <p>66(73) 713(912) 288(383)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>242(208) 76(166) 66(94)</p> <p>89(78) 854(622)</p> <p>126(198) 462(969) 36(78)</p> <p>82(37) 151(88) 40(27)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>91(49) 37(41) 12(10)</p> <p>20(12) 733(659) 3(6)</p> <p>46(82) 509(919) 25(37)</p> <p>41(21) 73(29) 14(9)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>434(460) 876(958)</p> <p>406(383) 3(2) 149(473)</p> <p>298(275) 856(996)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>964(1081) 354(358)</p> <p>376(367) 2(1) 303(287)</p> <p>778(900) 513(411)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>61(152) 933(936) 160(272)</p> <p>208(138) 311(363) 69(67)</p> <p>114(105) 295(363) 114(135)</p> <p>131(202) 956(1038) 45(76)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>153(195) 804(773) 183(133)</p> <p>101(59) 485(402) 180(180)</p> <p>141(138) 310(446) 67(76)</p> <p>67(90) 752(936) 155(247)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>92(71) 907(886) 49(24)</p> <p>29(9) 143(108) 65(77)</p> <p>96(89) 163(275) 41(48)</p> <p>49(43) 850(1173) 123(230)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>129(118) 890(948) 29(25)</p> <p>10(23) 178(61) 111(76)</p> <p>154(280) 71(281) 62(181)</p> <p>111(97) 858(1144) 29(72)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>140(152) 764(1075) 114(105)</p> <p>65(102) 419(334) 29(31)</p> <p>105(200) 297(449) 87(266)</p> <p>198(135) 792(1026) 30(56)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>39(67) 879(1189) 46(50)</p> <p>33(37) 158(29) 28(7)</p> <p>69(34) 33(162) 149(207)</p> <p>180(111) 983(1086) 10(17)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>42(1) 867(1143) 148(259)</p> <p>216(152) 49(2) 223(262)</p> <p>3(11) 6(30) 11(10)</p> <p>11(2) 954(1051) 220(246)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>346(201) 542(780) 187(448)</p> <p>290(162) 735(295) 31(50)</p> <p>96(292) 221(735) 22(40)</p> <p>87(63) 799(845) 23(32)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>127(112) 531(698) 34(80)</p> <p>132(50) 199(20) 170(36)</p> <p>22(102) 8(99) 14(42)</p> <p>24(18) 646(616) 21(78)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>11(2) 586(740) 32(54)</p> <p>23(21) 298(66) 936(463)</p> <p>6(5) 166(433) 32(71)</p> <p>39(31) 662(686) 655(1120)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>219(88) 0(1)</p> <p>69(230) 11(4)</p> <p>3(13) 1(0)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>4(14) 3(13)</p> <p>12(4) 537(424)</p> <p>14(4) 332(645)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>36(45) 95(82) 18(16)</p> <p>15(6) 498(414) 14(6)</p> <p>46(60) 324(493) 11(17)</p> <p>14(12) 74(92) 9(6)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>40(12) 60(64) 19(16)</p> <p>14(8) 200(77) 114(61)</p> <p>14(14) 53(252) 10(8)</p> <p>20(11) 57(95) 45(132)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 5-4 (2OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>172(130) ↓ 12(4) ↓ 2(9) ↑ 3(12) ↑ 120(230) ↑ 11(4) ↑</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>72(132) ↓ 1(4) ↑ 130(116) ↑ 7(3) ↑</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>44(63) ↓ 28(69) ↓ 84(38) ↓ 506(333) ↓ 53(81) ↓ 251(577) ↓</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>1(4) ↓ 1(4) ↓ 4(1) ↓ 589(367) ↓ 4(1) ↓ 275(644) ↓</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>325(136) ↓ 9(3) ↓ 108(398) ↓ 9(3) ↓ 2(10) ↓ 2(10) ↓</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>1(4) ↓ 1(4) ↓ 4(1) ↓ 591(364) ↓ 4(1) ↓ 272(647) ↓</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>332(129) ↓ 9(3) ↓ 106(406) ↓ 5(2) ↓ 3(10) ↓ 2(10) ↓</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>4(18) ↓ 30(125) ↓ 118(44) ↓ 590(348) ↓ 21(7) ↓ 252(644) ↓</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>340(126) ↓ 13(5) ↓ 102(413) ↓ 6(2) ↓ 2(6) ↓ 4(15) ↓</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>352(125) ↓ 17(6) ↓ 100(426) ↓ 6(2) ↓ 2(6) ↓ 13(54) ↓</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>465(603) ↓ 611(876) ↓ 483(282) ↓ 0(0) ↓ 198(233) ↓ 211(198) ↓ 950(788) ↓</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>512(789) ↓ 265(389) ↓ 566(330) ↓ 1(0) ↓ 173(276) ↓ 629(617) ↓ 293(280) ↓</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>100(166) ↓ 465(577) ↓ 92(169) ↓ 184(122) ↓ 191(157) ↓ 14(17) ↓ 165(139) ↓ 195(290) ↓ 54(70) ↓ 46(78) ↓ 469(552) ↓ 11(20) ↓</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>158(152) ↓ 263(267) ↓ 75(133) ↓ 95(97) ↓ 723(535) ↓ 59(38) ↓ 128(155) ↓ 369(570) ↓ 29(19) ↓ 22(29) ↓ 241(378) ↓ 49(69) ↓</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>24(22) ↓ 305(286) ↓ 33(19) ↓ 19(29) ↓ 69(35) ↓ 7(6) ↓ 52(73) ↓ 80(168) ↓ 27(24) ↓ 33(33) ↓ 250(395) ↓ 8(14) ↓</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>32(43) ↓ 265(249) ↓ 26(25) ↓ 24(28) ↓ 92(42) ↓ 23(2) ↓ 28(92) ↓ 34(129) ↓ 19(83) ↓ 30(18) ↓ 222(355) ↓ 8(16) ↓</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>20(21) ↓ 212(199) ↓ 44(128) ↓ 27(35) ↓ 462(246) ↓ 59(58) ↓ 28(35) ↓ 175(403) ↓ 146(59) ↓ 52(170) ↓ 190(317) ↓ 20(126) ↓</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>121(59) ↓ 294(255) ↓ 7(5) ↓ 7(10) ↓ 179(57) ↓ 109(39) ↓ 38(170) ↓ 61(236) ↓ 14(74) ↓ 68(16) ↓ 240(444) ↓ 24(78) ↓</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>39(14) ↓ 379(354) ↓ 6(25) ↓ 15(5) ↓ 333(537) ↓</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>90(34) ↓ 295(345) ↓ 22(91) ↓ 11(44) ↓ 35(12) ↓ 326(451) ↓</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>16(6) ↓ 290(384) ↓ 7(29) ↓ 361(463) ↓</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>133(109) ↓ 137(256) ↓ 259(170) ↓ 611(295) ↓ 95(262) ↓ 197(543) ↓</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>8(9) ↓ 11(10) ↓ 14(61) ↓ 129(27) ↓ 360(325) ↓ 310(85) ↓ 11(12) ↓ 206(626) ↓ 5(1) ↓ 2(2) ↓ 14(14) ↓ 60(276) ↓</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>661(347) ↓ 89(81) ↓ 247(677) ↓ 79(118) ↓ 172(102) ↓ 86(113) ↓</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>757(405) ↓ 11(5) ↓ 316(813) ↓ 17(3) ↓ 6(6) ↓ 16(10) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 5-4 (3OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>↖ 745(410) ↖ 0(0)</p> <p>↘ 329(810) ↘ 4(15)</p> <p>↖ 13(5) ↖ 0(0)</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>↖ 7(78) ↖ 15(55) ↖ 0(0)</p> <p>↘ 14(12) ↘ 0(0)</p> <p>↖ 234(746)</p> <p>↖ 833(286) ↖ 41(21) ↖ 0(0)</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>↖ 7(1) ↖ 0(4) ↖ 104(45)</p> <p>↘ 8(4) ↘ 297(803) ↘ 15(18)</p> <p>↖ 34(4) ↖ 731(352) ↖ 83(12)</p> <p>↖ 10(27) ↖ 0(4) ↖ 62(95)</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>↖ 129(413) ↖ 325(1023)</p> <p>↘ 414(233) ↘ 3(5) ↘ 408(364)</p> <p>↖ 626(378) ↖ 938(442)</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>↖ 629(1035) ↖ 104(353)</p> <p>↘ 294(78) ↘ 2(0) ↘ 440(542)</p> <p>↖ 1268(743) ↖ 543(558)</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>↖ 235(241) ↖ 468(839) ↖ 128(295)</p> <p>↘ 216(209) ↘ 287(604) ↘ 232(335)</p> <p>↖ 337(296) ↖ 1000(610) ↖ 44(62)</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>↖ 20(11) ↖ 662(1029) ↖ 117(149)</p> <p>↘ 83(18) ↘ 3(1) ↘ 24(5)</p> <p>↖ 241(109) ↖ 2(0) ↖ 75(21)</p> <p>↖ 107(17) ↖ 980(770) ↖ 37(45)</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>↖ 587(982) ↖ 0(0)</p> <p>↘ 0(0) ↘ 0(0)</p> <p>↖ 1055(758) ↖ 0(0)</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>↖ 161(92) ↖ 381(768) ↖ 63(138)</p> <p>↘ 118(66) ↘ 548(227) ↘ 307(275)</p> <p>↖ 42(160) ↖ 198(666) ↖ 34(119)</p> <p>↖ 153(68) ↖ 948(533) ↖ 350(308)</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>↖ 701(1152) ↖ 21(10)</p> <p>↘ 14(8) ↘ 7(2)</p> <p>↖ 1437(900) ↖ 9(1)</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>↖ 232(154) ↖ 452(955) ↖ 32(74)</p> <p>↘ 164(263) ↘ 18(77) ↘ 116(526)</p> <p>↖ 530(159) ↖ 1108(555) ↖ 35(40)</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>↖ 444(865) ↖ 196(660)</p> <p>↘ 865(276) ↘ 261(313)</p> <p>↖ 825(518) ↖ 281(344)</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>↖ 64(23) ↖ 15(7) ↖ 29(26)</p> <p>↘ 16(12) ↘ 977(578) ↘ 35(29)</p> <p>↖ 26(51) ↖ 497(1110) ↖ 28(38)</p> <p>↖ 50(25) ↖ 24(7) ↖ 34(33)</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>↖ 70(28) ↖ 112(46) ↖ 19(16)</p> <p>↘ 18(6) ↘ 812(504) ↘ 147(223)</p> <p>↖ 40(80) ↖ 418(868) ↖ 20(56)</p> <p>↖ 138(28) ↖ 103(44) ↖ 208(153)</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>↖ 66(111) ↖ 53(258) ↖ 115(168)</p> <p>↘ 80(129) ↘ 827(492) ↘ 18(53)</p> <p>↖ 132(120) ↖ 524(917) ↖ 26(65)</p> <p>↖ 56(21) ↖ 189(87) ↖ 76(23)</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>↖ 147(194) ↖ 184(438) ↖ 94(114)</p> <p>↘ 31(47) ↘ 660(520) ↘ 112(226)</p> <p>↖ 254(226) ↖ 446(656) ↖ 28(91)</p> <p>↖ 182(42) ↖ 381(208) ↖ 107(137)</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>↖ 28(29) ↖ 189(133) ↖ 51(28)</p> <p>↘ 26(60) ↘ 612(720) ↘ 42(131)</p> <p>↖ 31(41) ↖ 665(831) ↖ 67(44)</p> <p>↖ 96(43) ↖ 173(95) ↖ 98(124)</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>↖ 65(95) ↖ 184(796) ↖ 123(437)</p> <p>↘ 171(78) ↘ 771(419) ↘ 235(583)</p> <p>↖ 85(68) ↖ 498(840) ↖ 78(271)</p> <p>↖ 163(199) ↖ 677(367) ↖ 471(235)</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>↖ 102(216) ↖ 352(622) ↖ 146(187)</p> <p>↘ 84(153) ↘ 413(423) ↘ 170(388)</p> <p>↖ 163(297) ↖ 493(564) ↖ 44(77)</p> <p>↖ 162(191) ↖ 669(568) ↖ 249(172)</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>↖ 1056(935) ↖ 257(261)</p> <p>↘ 130(402) ↘ 482(418)</p> <p>↖ 883(1120) ↖ 275(477)</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>↖ 400(405) ↖ 0(1) ↖ 141(128)</p> <p>↘ 674(978) ↘ 0(0)</p> <p>↖ 1056(1143) ↖ 520(581)</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>↖ 385(631) ↖ 308(252)</p> <p>↖ 369(556) ↖ 771(825)</p> <p>↖ 228(188) ↖ 239(191)</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>↖ 373(192) ↖ 1076(1120)</p> <p>↖ 500(821) ↖ 697(451)</p> <p>↖ 228(396) ↖ 0(2) ↖ 312(755)</p>

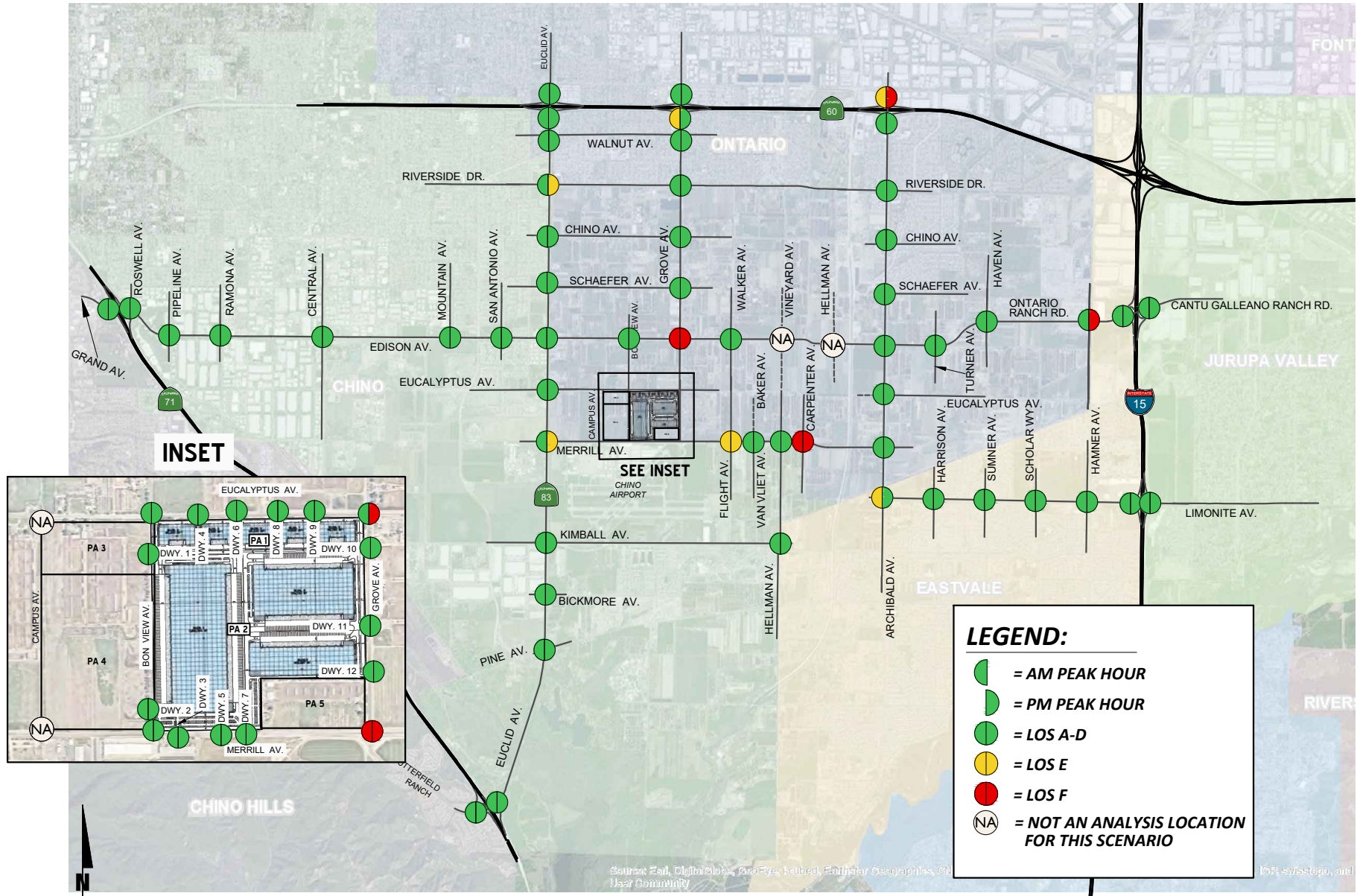
**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





EXHIBIT 5-5: E+P (PHASE 1) SUMMARY OF LOS



**Table 5-1**  
Page 1 of 2

**Intersection Analysis for E+P (Phase 1) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	Existing (2021)				E+P (Phase 1)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	38.6	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	26.5	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	33.3	49.9	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	20.7	32.2	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	27.2	31.8	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	40.0	44.0	C	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	24.1	21.7	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	22.9	21.1	C	C	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	30.9	23.5	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	32.0	35.2	C	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	<b>61.6</b>	D	<b>E</b>	54.1	<b>70.6</b>	D	<b>E</b>	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	23.1	25.4	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	28.1	31.0	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	46.5	52.9	D	D	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	15.7	14.6	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	39.3	<b>59.8</b>	D	<b>E</b>	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	29.6	47.3	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	17.2	14.4	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	35.7	52.1	D	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	38.9	40.2	E	E	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	9.0	9.5	A	A	Ontario / LOS E
26	Bon View Av. & Driveway 1	<b>CSS</b>	Future Intersection				9.4	9.7	A	A	Ontario / LOS E
27	Bon View Av. & Driveway 2	<b>CSS</b>	Future Intersection				8.9	8.9	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	19.9	26.9	C	D	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	<b>CSS</b>	Future Intersection				16.0	17.1	C	C	Chino, Ontario / LOS D
30	Driveway 4 & Eucalyptus Av.	<b>CSS</b>	Future Intersection				9.8	10.2	A	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	<b>CSS</b>	Future Intersection				16.0	17.1	C	C	Chino, Ontario / LOS D
32	Driveway 6 & Eucalyptus Av.	<b>CSS</b>	Future Intersection				9.8	10.2	A	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	<b>TS</b>	Future Intersection				32.7	10.9	C	B	Chino, Ontario / LOS D
34	Driveway 8 & Eucalyptus Av.	<b>CSS</b>	Future Intersection				9.4	10.0	A	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	<b>CSS</b>	Future Intersection				9.0	9.9	A	A	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	28.7	21.2	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	<b>61.1</b>	35.9	<b>E</b>	D	<b>61.4</b>	36.4	<b>E</b>	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	30.1	27.9	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	45.8	53.5	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	21.9	26.8	C	D	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	14.7	23.0	B	C	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	<b>88.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	11.4	<b>&gt;100.0</b>	B	<b>F</b>	20.6	<b>&gt;100.0</b>	C	<b>F</b>	Ontario / LOS E
44	Grove Av. & Driveway 10	<b>CSS</b>	Future Intersection				9.8	9.7	A	A	Ontario / LOS E
45	Grove Av. & Driveway 11	<b>CSS</b>	Future Intersection				15.8	23.2	C	C	Ontario / LOS E
46	Grove Av. & Driveway 12	<b>CSS</b>	Future Intersection				10.3	11.7	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	<b>54.8</b>	<b>48.5</b>	<b>F</b>	<b>E</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	41.8	77.4	E	E	Ontario / LOS E

**Table 5-1**  
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**Intersection Analysis for E+P (Phase 1) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	Existing (2021)				E+P (Phase 1)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	<b>44.9</b>	<b>43.4</b>	E	E	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	12.5	16.3	B	C	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	17.4	19.5	C	C	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	17.0	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	<b>81.8</b>	<b>86.0</b>	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	<b>118.7</b>	D	F	<b>58.2</b>	<b>119.1</b>	E	F	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	25.9	42.8	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	48.6	53.6	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	20.9	16.4	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	0.6	1.5	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	48.9	31.2	D	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	6.1	3.4	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	45.4	42.7	D	D	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	<b>64.1</b>	23.1	E	C	<b>77.8</b>	28.5	E	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	17.4	15.7	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	19.4	17.6	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	24.2	23.1	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	19.4	19.5	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	16.7	15.3	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	<b>123.6</b>	D	F	51.9	<b>128.9</b>	D	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	25.2	28.7	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	16.0	13.5	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	7.7	6.1	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	20.4	13.1	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	7.1	12.0	A	B	Jurupa Valley, Caltrans / LOS D

\* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

<sup>1</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>2</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

<sup>3</sup> Minimum acceptable LOS for each applicable jurisdiction.

### 5.3.2 E+P (PROJECT BUILDOUT)

The intersection analysis results are summarized on Table 5-2 for E+P (Project Buildout) traffic conditions, which indicate that the following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours

Consistent with Table 5-2, a summary of the peak hour intersection LOS is shown on Exhibit 5-6 for E+P (Project Buildout) traffic conditions. The intersection operations analysis worksheets for E+P (Project Buildout) traffic conditions are included in Appendix 5.2 of this TA.

### 5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

The following study area intersections are anticipated to meet peak hour volume-based traffic signal warrants for E+P (Phase 1) traffic conditions (see Appendix 5.3), in addition to those previously warranted under Existing traffic conditions:

- Bon View Avenue & Merrill Avenue (#28)
- Driveway 7 & Merrill Avenue (#33)
- Grove Avenue & Driveway 11 (#45)
- Walker Avenue & Edison Avenue (#48)

The following study area intersection is anticipated to meet peak hour volume-based traffic signal warrant for E+P (Project Buildout) traffic conditions (see Appendix 5.4), in addition to those previously warranted under Existing and E+P (Phase 1) traffic conditions:

- Bon View Avenue & Eucalyptus Avenue (#25)

### 5.5 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for E+P are presented on Table 5-3 and 5-4 for Phase 1 and Project Buildout, respectively. As shown on Table 5-3 and 5-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows with the addition of Project (Phase 1 or Project Buildout) traffic. Worksheets for E+P (Phase 1 and Project Buildout) traffic conditions off-ramp queuing analysis are provided in Appendix 5.5 and Appendix 5.6, respectively.

**Table 5-2**  
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**Intersection Analysis for E+P (Project Buildout) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	Existing (2021)				E+P (Project Buildout)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	38.7	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	27.9	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	34.9	49.4	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	20.7	32.3	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	27.2	32.1	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	40.2	44.4	C	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	24.1	21.8	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	23.3	22.8	C	C	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	33.3	23.9	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	32.1	35.5	C	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	61.6	D	E	56.1	78.5	E	E	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	23.5	26.2	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	29.7	33.1	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	51.5	64.7	D	E	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	16.2	14.9	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	45.6	67.2	D	E	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	30.5	48.1	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	17.5	14.5	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	37.4	54.3	D	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.8	11.0	B	B	Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	<u>CSS</u>	Future Intersection				16.8	19.6	C	C	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	50.6	50.2	F	F	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	11.8	10.8	B	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	<u>CSS</u>	Future Intersection				10.2	10.9	B	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	<u>CSS</u>	Future Intersection				9.2	9.0	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	25.3	99.1	D	F	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	<u>CSS</u>	Future Intersection				17.5	19.0	C	C	Chino, Ontario / LOS D
30	Driveway 4 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.8	11.8	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	<u>CSS</u>	Future Intersection				17.5	19.0	C	C	Chino, Ontario / LOS D
32	Driveway 6 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.8	11.8	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	<u>TS</u>	Future Intersection				41.3	11.1	D	B	Chino, Ontario / LOS D
34	Driveway 8 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.1	11.3	B	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				9.3	10.9	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	28.8	21.4	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	61.1	35.9	E	D	61.5	36.9	E	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	30.2	27.9	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	46.1	54.7	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	25.3	32.6	D	D	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	16.0	26.9	C	D	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	88.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	11.4	>100.0	B	F	54.7	>100.0	F	F	Ontario / LOS E
44	Grove Av. & Driveway 10	<u>CSS</u>	Future Intersection				9.9	9.7	A	A	Ontario / LOS E
45	Grove Av. & Driveway 11	<u>CSS</u>	Future Intersection				16.4	25.1	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	<u>CSS</u>	Future Intersection				9.5	10.1	A	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	54.8	48.5	F	E	>100.0	>100.0	F	F	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	74.3	>100.0	F	F	Ontario / LOS E

**Table 5-2**  
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**Intersection Analysis for E+P (Project Buildout) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	Existing (2021)				E+P (Project Buildout)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	<b>69.9</b>	<b>69.9</b>	F	F	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	13.2	18.1	B	C	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	19.5	22.1	C	C	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	17.2	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	<b>81.8</b>	<b>86.0</b>	F	F	<b>&gt;100.0</b>	<b>&gt;100.0</b>	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	<b>118.7</b>	D	F	<b>65.7</b>	<b>119.8</b>	E	F	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	25.9	42.9	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	49.9	54.2	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	21.7	17.2	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	0.6	1.5	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	63.4	34.1	E	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	6.2	3.5	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	61.7	61.0	E	E	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	<b>64.1</b>	23.1	E	C	<b>88.2</b>	34.9	F	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	18.0	16.4	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	19.5	17.7	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	24.2	23.2	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	19.7	19.8	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	16.8	15.4	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	<b>123.6</b>	D	F	<b>55.3</b>	<b>132.6</b>	E	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	25.7	29.2	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	16.7	13.7	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	7.8	6.4	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	20.4	13.4	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	7.9	12.1	A	B	Jurupa Valley, Caltrans / LOS D

\* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

<sup>1</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>2</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

<sup>3</sup> Minimum acceptable LOS for each applicable jurisdiction.

<sup>4</sup> Impact is significant if the pre-project condition is at or better than LOS D (or acceptable LOS) and the project-generated traffic causes deterioration below acceptable levels, or if the Project contributes 50 or more peak hour trips to an existing deficiency. However, if the pre-project condition is already below LOS D (or acceptable LOS), the Project will be responsible for mitigating its impact to a LOS equal to or better than it was without the Project.

<sup>5</sup> Traffic signal is currently flashing red. As such, an all-way stop controlled intersection was assumed for Existing and E+P traffic conditions only.

<sup>6</sup> I-15 Freeway and Limonite Avenue Interchange is currently under construction and is anticipated to be completed in 2020. Pre-construction volumes and lane geometrics have been utilized for the operations analysis.

**Table 5-3**

**Peak Hour Freeway Off-Ramp Queuing Summary for E+P (Phase 1) Conditions**

Intersection	Movement	Available Stacking Distance (Feet)	Existing (2021)				E+P (Phase 1)			
			95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>		95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes	332	361	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes	337	363	Yes	Yes
	SBR	570	181	336	Yes	Yes	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 <sup>2</sup>	Yes	Yes	248	246 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	254	392 <sup>2</sup>	Yes	Yes	254	392 <sup>2</sup>	Yes	Yes
	NBR	815	6	132	Yes	Yes	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes	28	43	Yes	Yes
	NBR	420	237 <sup>2</sup>	778 <sup>2</sup>	Yes	Yes <sup>3</sup>	311 <sup>2</sup>	804 <sup>2</sup>	Yes	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323	287	Yes	Yes	323 <sup>2</sup>	287	Yes	Yes
	WBL/T/R	1,430	331 <sup>2</sup>	294	Yes	Yes	331 <sup>2</sup>	294	Yes	Yes
	WBR	400	216	217	Yes	Yes	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 <sup>2</sup>	375 <sup>2</sup>	Yes	Yes	386 <sup>2</sup>	375 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	303 <sup>2</sup>	315 <sup>2</sup>	Yes	Yes	416 <sup>2</sup>	354 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes	223	293	Yes	Yes
	WBR	250	639 <sup>2</sup>	235	Yes <sup>3</sup>	Yes	639 <sup>2</sup>	239	Yes <sup>3</sup>	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 <sup>2</sup>	520 <sup>2</sup>	Yes	Yes	846 <sup>2</sup>	520	Yes	Yes
	EBR	315	63	239	Yes	Yes	65	247 <sup>2</sup>	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 <sup>2</sup>	394 <sup>2</sup>	Yes	Yes	533 <sup>2</sup>	424 <sup>2</sup>	Yes	Yes
	WBR	250	511 <sup>2</sup>	58	Yes <sup>3</sup>	Yes	511 <sup>2</sup>	58	No	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes	264	81	Yes	Yes
	EBR	350	293	495 <sup>2</sup>	Yes	Yes <sup>3</sup>	330 <sup>2</sup>	495 <sup>2</sup>	Yes	Yes <sup>3</sup>
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes	110	94	Yes	Yes
	SBL/R	560	371	204	Yes	Yes	425 <sup>2</sup>	217	Yes	Yes
	SBR	460	280 <sup>2</sup>	183	Yes <sup>3</sup>	Yes <sup>3</sup>	385 <sup>2</sup>	194	Yes <sup>3</sup>	Yes <sup>3</sup>
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes	46	128	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes	91	138	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes	92	140	Yes	Yes
	NBR	400	34	274	Yes	Yes	34	266	Yes	Yes

<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

Table 5-4

Peak Hour Freeway Off-Ramp Queuing Summary for E+P (Project Buildout) Conditions

Intersection	Movement	Available Stacking Distance (Feet)	Existing (2021)				E+P (Project Buildout)			
			95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>		95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes	347	366	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes	352	367	Yes	Yes
	SBR	570	181	336	Yes	Yes	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 <sup>2</sup>	Yes	Yes	248	246 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	254	392 <sup>2</sup>	Yes	Yes	254	392 <sup>2</sup>	Yes	Yes
	NBR	815	6	132	Yes	Yes	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes	28	43	Yes	Yes
	NBR	420	237 <sup>2</sup>	778 <sup>2</sup>	Yes	Yes <sup>3</sup>	379 <sup>2</sup>	831 <sup>2</sup>	Yes	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323	287	Yes	Yes	323 <sup>2</sup>	287	Yes	Yes
	WBL/T/R	1,430	331 <sup>2</sup>	294	Yes	Yes	331 <sup>2</sup>	294	Yes	Yes
	WBR	400	216	217	Yes	Yes	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 <sup>2</sup>	375 <sup>2</sup>	Yes	Yes	386 <sup>2</sup>	375 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	303 <sup>2</sup>	315 <sup>2</sup>	Yes	Yes	493 <sup>2</sup>	378 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes	226	294	Yes	Yes
	WBR	250	639 <sup>2</sup>	235	Yes <sup>3</sup>	Yes	639 <sup>2</sup>	241	Yes <sup>3</sup>	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 <sup>2</sup>	520 <sup>2</sup>	Yes	Yes	846 <sup>2</sup>	520 <sup>2</sup>	Yes	Yes
	EBR	315	63	239	Yes	Yes	67	253	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 <sup>2</sup>	394 <sup>2</sup>	Yes	Yes	596 <sup>2</sup>	443 <sup>2</sup>	Yes	Yes
	WBR	250	511 <sup>2</sup>	58	Yes <sup>3</sup>	Yes	511 <sup>2</sup>	58	Yes <sup>3</sup>	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes	264	81	Yes	Yes
	EBR	350	293	495 <sup>2</sup>	Yes	Yes <sup>3</sup>	363 <sup>2</sup>	495 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes	110	94	Yes	Yes
	SBL/R	560	371	204	Yes	Yes	463 <sup>2</sup>	228	Yes	Yes
	SBR	460	280 <sup>2</sup>	183 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	424 <sup>2</sup>	203	Yes	Yes <sup>3</sup>
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes	50	130	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes	102	142	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes	103	144	Yes	Yes
	NBR	400	34	274	Yes	Yes	33	267	Yes	Yes

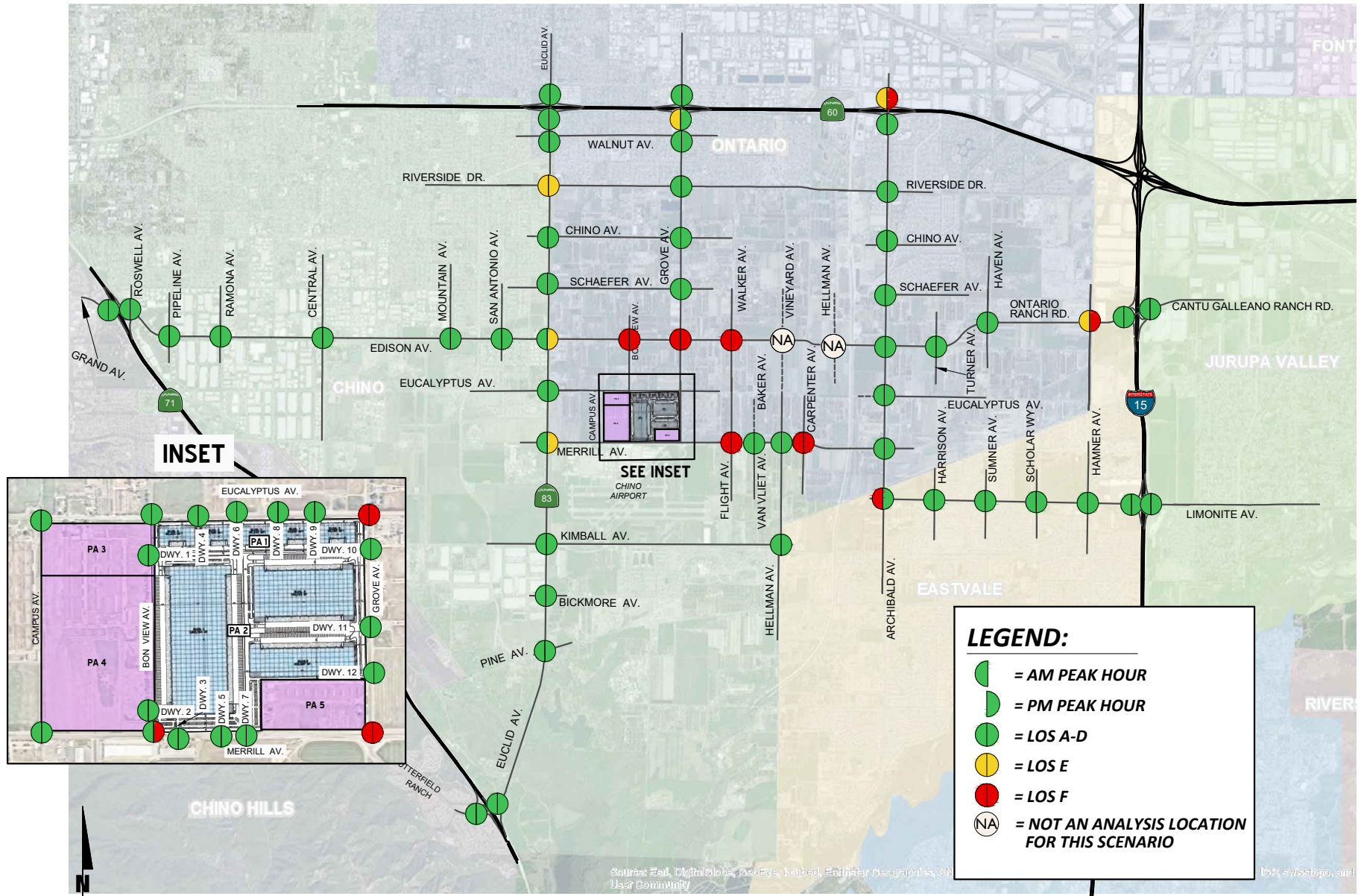
<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.



EXHIBIT 5-6: E+P (PROJECT BUILDOUT) SUMMARY OF LOS



## **5.7 IMPROVEMENTS**

This section provides a summary of Project deficiencies and identified improvements. Based on the City of Ontario deficiency criteria discussed in Section 2.6 *Deficiency Criteria*, intersections were found to be deficient.

### **5.7.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS**

The effectiveness of the proposed recommended improvements is presented on Table 5-5 for E+P (Phase 1 and Project Buildout) traffic conditions. The intersection operations analysis worksheets for E+P (Phase 1 and Project Buildout) traffic conditions, with improvements, are included in Appendix 5.7 and Appendix 5.8 of this TA.

### **5.7.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES**

As shown previously on Tables 5-3 and 5-4, there are no peak hour queuing issues anticipated at the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway study area interchanges. As such, no improvements have been identified.

**Table 5-5**  
Page 1 of 2

**Intersection Analysis for E+P Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM	
			L	T	R	L	T	R	L	T	R	L	T	R					
13	Euclid Av. (SR-83) & Riverside Dr.																		
	- Existing <sup>4</sup>	TS	1	2	0	1	2	1>	1	1	<u>1</u>	1	2	d	42.0	46.2	D	D	Chino, Ontario,
	- E+P (Phase 1) <sup>4</sup>	TS	1	2	0	1	2	1>	1	1	<u>1</u>	1	2	d	42.1	48.5	D	D	Caltrans / LOS D
	- E+P (Project Buildout) <sup>4</sup>	TS	1	<b>3</b>	0	1	2	1>	1	1	<u>1</u>	1	2	d	42.3	50.2	D	D	
16	Euclid Av. (SR-83) & Edison Av.																		
	- Existing																		Chino, Ontario,
	- E+P (Phase 1)																		Caltrans / LOS D
	- E+P (Project Buildout)	TS	1	2	1	1	2	1	1	1	1	1	1	<u>1</u>	44.4	52.0	D	D	
18	Euclid Av. (SR-83) & Merrill Av.																		
	- Existing																		Chino, Ontario,
	- E+P (Phase 1)	TS	1	2	1	1	2	0	0	1	0	<u>1</u>	1	<u>1&gt;</u>	17.6	31.7	B	C	Caltrans / LOS D
	- E+P (Project Buildout)	TS	1	2	1	1	2	0	0	1	0	<u>1</u>	1	<u>1&gt;</u>	19.4	41.4	B	D	
24	Bon View Av. & Edison Av.																		
	- Existing																		Ontario / LOS E
	- E+P (Phase 1)																		
	- E+P (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	10.2	10.1	B	B	
28	Bon View Av. & Merrill Av.																		
	- Existing																		Chino, Ontario /
	- E+P (Phase 1)																		LOS D
	- E+P (Project Buildout)	<u>TS</u>	0	0	0	0	1	0	<u>1</u>	1	0	0	1	<u>1</u>	12.7	12.9	B	B	
37	Grove Av. & SR-60 EB Ramps																		
	- Existing	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	34.0	30.9	C	C	Ontario,
	- E+P (Phase 1)	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	34.2	31.2	C	C	Caltrans / LOS D
	- E+P (Project Buildout)	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	34.3	31.5	C	C	
42	Grove Av. & Edison Av.																		
	- Existing	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.6	11.2	B	B	Ontario / LOS E
	- E+P (Phase 1)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	12.3	15.9	B	B	
	- E+P (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	13.0	22.3	B	C	
43	Grove Av. & Eucalyptus Av.																		
	- Existing	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	8.3	9.0	A	A	Ontario / LOS E
	- E+P (Phase 1)	<u>TS</u>	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	0	1	0	0	1	0	14.7	36.0	B	D	
	- E+P (Project Buildout)	<u>TS</u>	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	0	1	0	19.7	42.2	B	D	
47	Grove Av. & Merrill Av.																		
	- Existing	<u>TS</u>	0	0	0	0	1	0	0	1	0	0	1	0	14.7	12.7	B	B	Chino, Ontario /
	- E+P (Phase 1)	<u>TS</u>	0	0	0	0	1	0	0	1	0	0	1	0	19.7	18.9	B	B	LOS D
	- E+P (Project Buildout)	<u>TS</u>	0	0	0	0	1	0	<u>1</u>	1	0	0	1	0	25.1	20.0	C	C	
48	Walker Av. & Edison Av.																		
	- Existing																		Ontario / LOS E
	- E+P (Phase 1)																		
	- E+P (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	10.7	10.3	B	B	
49	Walker Av./Flight Av. & Merrill Av.																		
	- Existing																		Chino, Ontario /
	- E+P (Phase 1)	<u>TS</u>	0	1	0	0	0	0	0	1	1	1	1	0	14.1	8.0	B	A	LOS D
	- E+P (Project Buildout)	<u>TS</u>	0	1	0	0	0	0	0	1	1	1	1	0	15.4	9.2	B	A	

**Table 5-5**  
Page 2 of 2

**Intersection Analysis for E+P Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM	
			L	T	R	L	T	R	L	T	R	L	T	R					
54	Carpenter Av. & Merrill Av.																		
	- Existing	<u>TS</u>	0	1	0	0	1	0	1	1	1	1	1	0	9.6	9.3	A	A	Chino, Ontario / LOS D
	- E+P (Phase 1)	<u>TS</u>	0	1	0	0	1	0	1	1	1	1	1	0	10.0	9.8	B	A	
- E+P (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	1	1	1	1	1	0	10.5	10.3	B	B		
56	Archibald Av. & SR-60 WB Ramps																		
	- Existing	TS	<u>2</u>	3	0	0	<u>4</u>	<u>1</u>	0	0	0	<u>1</u>	1	1	17.8	25.1	B	C	Ontario, Caltrans / LOS D
	- E+P (Phase 1)	TS	<u>2</u>	3	0	0	<u>4</u>	<u>1</u>	0	0	0	<u>1</u>	1	1	18.3	25.2	B	C	
- E+P (Project Buildout)	TS	<u>2</u>	3	0	0	<u>4</u>	<u>1</u>	0	0	0	<u>1</u>	1	1	18.8	25.3	B	C		
64	Archibald Av. & Limonite Av.																		
	- Existing	TS	0	1	1>	1	1	0	0	0	0	1	0	<u>2&gt;</u>	25.5	34.5	C	C	Eastvale / LOS D
	- E+P (Phase 1)	TS	0	1	1>	1	1	0	0	0	0	1	0	<u>2&gt;</u>	30.2	44.7	C	D	
- E+P (Project Buildout)	TS	0	1	1>	1	1	0	0	0	0	1	0	<u>2&gt;</u>	33.9	54.2	C	D		
70	Hamner Av. & Ontario Ranch Rd.																		
	- Existing <sup>5</sup>	TS	2	3	1	2	<u>3</u>	<u>0</u>	2	4	0	2	2	1	44.6	48.3	D	D	Eastvale, Ontario / LOS D
	- E+P (Phase 1) <sup>5</sup>	TS	2	3	1	2	<u>3</u>	<u>0</u>	2	4	0	2	2	1	48.6	52.1	D	D	
- E+P (Project Buildout) <sup>5</sup>	TS	2	3	1	2	<u>3</u>	<u>0</u>	2	4	0	2	2	1	51.6	54.9	D	D		

<sup>1</sup> When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d= Defacto Right Turn Lane; 1 = Improvement

<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>3</sup> AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; TS = Improvement

<sup>4</sup> Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

<sup>5</sup> Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.

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## 6 OPENING YEAR CUMULATIVE (2024) TRAFFIC CONDITIONS

This section discusses the methods used to develop Opening Year Cumulative (2024) Without and With Project traffic forecasts, and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses.

### 6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2024) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Opening Year Cumulative conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- Driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Opening Year Cumulative conditions only.

### 6.2 OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus an ambient growth factor of 6.12% plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) Without Project traffic conditions are shown on Exhibits 6-1 and 6-2, respectively.

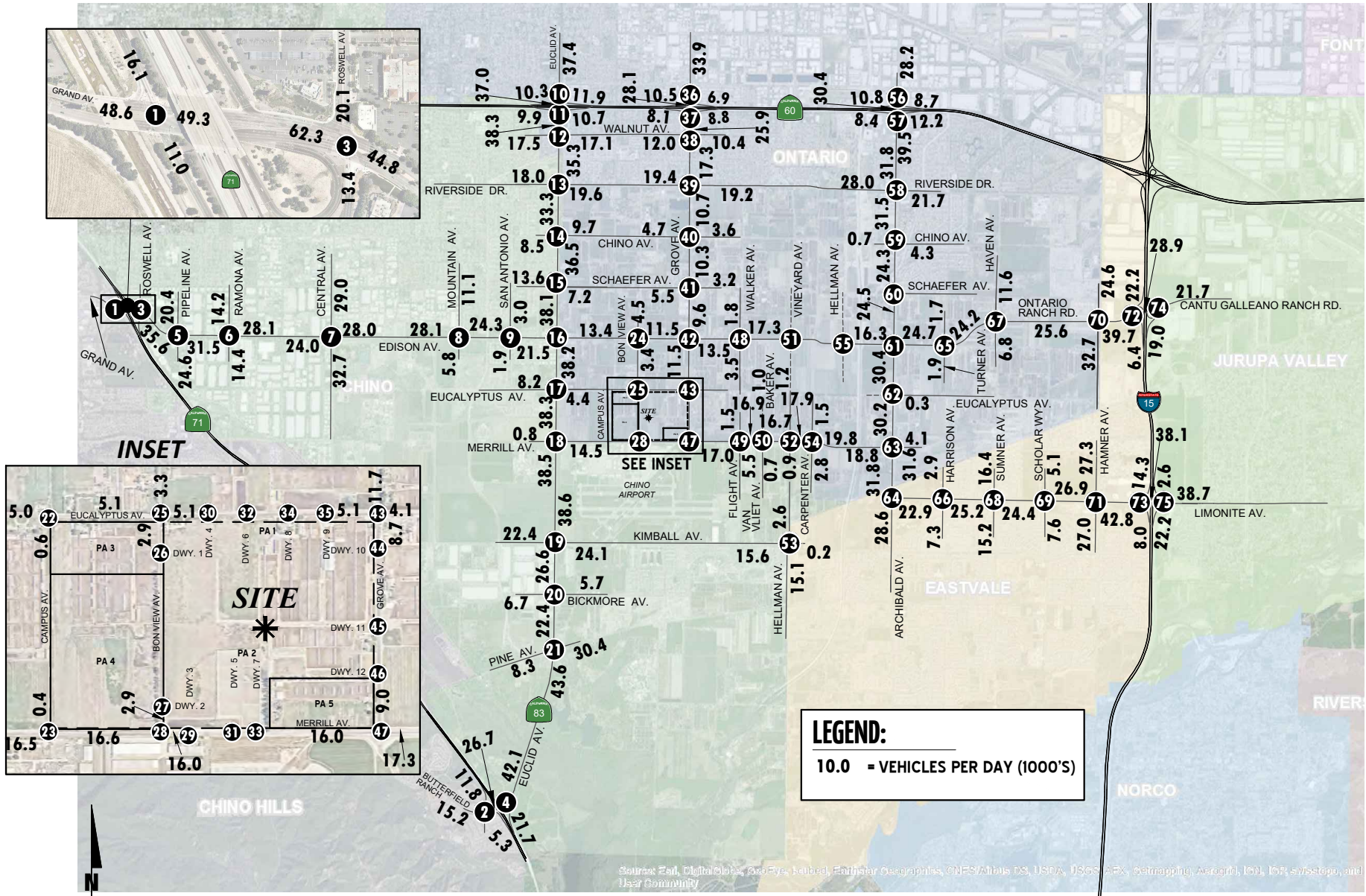
### 6.3 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2024) Without Project traffic in conjunction with the addition of Project (Phase 1) traffic. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) With Project traffic conditions are shown on Exhibits 6-3 and 6-4, respectively.

### 6.4 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2024) Without Project traffic in conjunction with the addition of Project (Project Buildout) traffic. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) With Project traffic conditions are shown on Exhibits 6-5 and 6-6, respectively.

EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 6-2 (10F3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>329(479) 2(1) 771(788) 1433(1400) 54(300)</p> <p>792(1424) 216(571)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>40(73) 29(72) 636(682) 292(275) 214(131)</p> <p>593(783) 32(64)</p> <p>19(19) 251(138)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>683(800) 45(169) 38(117) 923(1552)</p> <p>344(380) 1036(1517) 182(325)</p> <p>485(385) 74(141) 64(219)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>1000(1081) 782(380)</p> <p>690(878) 314(161)</p> <p>44(131) 754(1015)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>53(146) 341(567) 57(130) 40(76) 731(925) 158(238)</p> <p>95(258) 787(975) 144(246)</p> <p>146(290) 206(449) 103(171)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>79(95) 420(396) 44(51) 53(55) 880(940) 42(71)</p> <p>83(112) 764(1064) 43(108)</p> <p>36(82) 294(425) 52(65)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>234(136) 920(803) 67(95) 98(81) 916(614) 294(255)</p> <p>121(216) 469(790) 53(82)</p> <p>72(81) 765(979) 306(406)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>257(221) 81(177) 72(102) 96(85) 909(660) 10(36)</p> <p>134(210) 490(1032) 39(83)</p> <p>87(40) 160(94) 42(29)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>96(52) 40(43) 15(12) 21(16) 781(703) 3(7)</p> <p>49(87) 541(980) 26(40)</p> <p>43(22) 77(31) 14(10)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>460(488) 933(1021) 431(406) 3(2) 435(523)</p> <p>356(363) 912(1062)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>1068(1173) 375(381) 399(390) 2(1) 389(350)</p> <p>869(1032) 562(480)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>64(161) 1069(1064) 170(289) 221(147) 330(385) 74(71)</p> <p>121(112) 314(385) 116(143)</p> <p>138(209) 1075(1223) 48(82)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>163(207) 962(890) 194(142) 107(63) 515(426) 193(193)</p> <p>150(147) 329(474) 72(83)</p> <p>74(97) 858(1110) 167(264)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>97(75) 1074(1013) 51(26) 31(10) 151(115) 69(82)</p> <p>102(95) 173(291) 44(53)</p> <p>54(47) 966(1366) 131(245)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>137(125) 1058(1083) 30(27) 11(24) 190(70) 118(81)</p> <p>163(297) 79(300) 64(194)</p> <p>119(101) 976(1337) 30(76)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>149(161) 952(1228) 91(101) 61(76) 439(330) 33(35)</p> <p>112(212) 292(470) 122(298)</p> <p>222(176) 915(1243) 33(62)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>41(71) 1069(1353) 84(65) 45(79) 167(28) 30(8)</p> <p>73(36) 32(172) 165(225)</p> <p>194(127) 1122(1303) 11(18)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>44(1) 987(1280) 216(297) 247(221) 52(2) 244(302)</p> <p>3(12) 7(32) 12(11)</p> <p>12(2) 1072(1196) 257(272)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>369(212) 631(911) 217(484) 316(191) 793(336) 39(68)</p> <p>101(312) 252(796) 28(58)</p> <p>106(76) 924(969) 40(41)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>164(133) 589(813) 44(111) 163(68) 219(26) 194(50)</p> <p>33(142) 12(115) 22(76)</p> <p>52(31) 756(691) 29(99)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>12(2) 654(848) 50(110) 70(50) 323(74) 1030(519)</p> <p>7(6) 179(469) 35(79)</p> <p>44(34) 762(765) 710(1230)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>274(101) 24(9)</p> <p>76(289) 19(7)</p> <p>5(21) 6(27)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>3(11) 3(13) 12(4) 626(530)</p> <p>10(4) 430(747)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>39(47) 109(124) 19(17) 15(7) 515(381) 14(7)</p> <p>49(64) 292(507) 12(18)</p> <p>14(13) 115(107) 10(7)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>44(14) 70(105) 20(17) 14(9) 237(93) 1(2)</p> <p>15(17) 66(295) 2(4)</p> <p>18(2) 97(109) 2(8)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





**EXHIBIT 6-2 (20F3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Future Intersection</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Future Intersection</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Future Intersection</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Future Intersection</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Future Intersection</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 6-2 (3OF3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES**

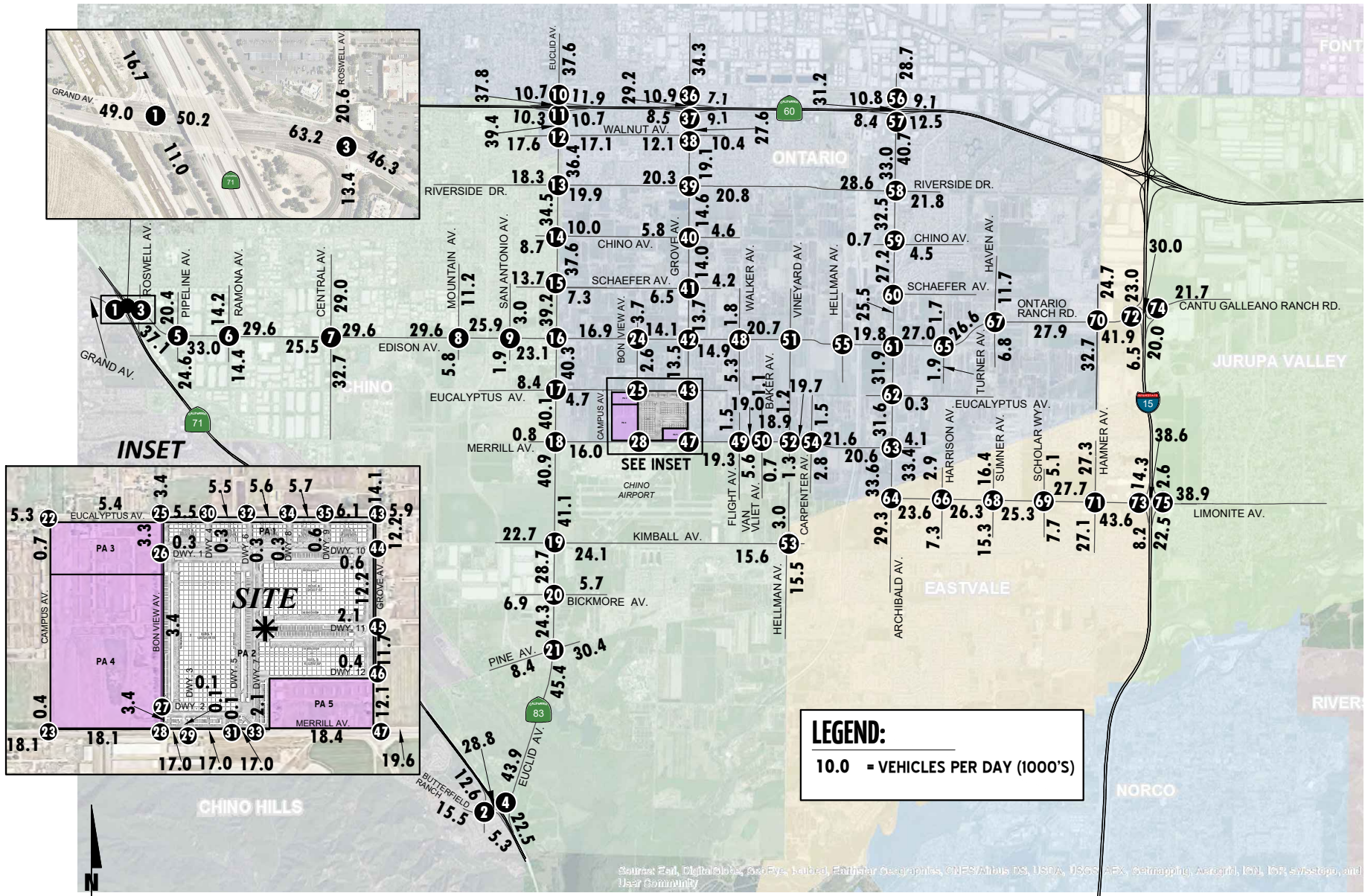
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>763(460) 24(20)</p> <p>377(831) 1(2)</p> <p>4(6) 17(26)</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>12(98) 17(61) 0(0)</p> <p>0(0) 1(5) 1(4)</p> <p>29(19) 4(2) 254(801)</p> <p>893(311) 47(24) 3(1)</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>11(14) 0(4) 117(73)</p> <p>60(13) 809(417) 115(22)</p> <p>21(9) 355(887) 18(20)</p> <p>12(31) 0(4) 74(121)</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>137(438) 350(1089)</p> <p>439(247) 3(6) 458(401)</p> <p>669(414) 998(475)</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>699(1116) 110(374)</p> <p>312(83) 2(0) 481(581)</p> <p>1352(807) 589(617)</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>249(256) 541(912) 136(314)</p> <p>178(118) 487(441) 93(151)</p> <p>230(222) 305(641) 244(357)</p> <p>358(313) 1079(691) 47(66)</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>21(12) 745(1117) 124(158)</p> <p>256(116) 2(0) 78(23)</p> <p>88(19) 3(1) 25(6)</p> <p>113(18) 1059(861) 40(48)</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>664(1067) 0(0)</p> <p>0(0) 0(0)</p> <p>1139(848) 0(0)</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>145(89) 473(849) 67(146)</p> <p>125(70) 550(232) 374(314)</p> <p>38(142) 202(676) 37(126)</p> <p>163(73) 1032(636) 389(378)</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>861(1278) 22(11)</p> <p>14(9) 8(2)</p> <p>569(1077) 9(1)</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>340(198) 503(1034) 34(78)</p> <p>129(51) 52(27) 76(47)</p> <p>201(373) 19(81) 138(589)</p> <p>588(189) 1193(616) 37(42)</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>479(939) 217(734)</p> <p>948(306) 308(381)</p> <p>891(563) 337(410)</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>66(24) 15(8) 31(28)</p> <p>17(13) 1056(627) 38(31)</p> <p>27(52) 537(1199) 30(41)</p> <p>53(26) 25(8) 36(35)</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>74(30) 119(49) 20(17)</p> <p>19(6) 922(597) 156(236)</p> <p>42(85) 489(998) 22(60)</p> <p>147(31) 109(46) 221(162)</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>69(120) 56(274)</p> <p>85(137) 898(534) 19(56)</p> <p>142(127) 564(994) 28(68)</p> <p>60(22) 201(93) 81(24)</p>	<p><b>68</b> Summer Av. &amp; Limonite Av.</p> <p>156(205) 195(465) 99(121)</p> <p>33(50) 763(613) 120(240)</p> <p>269(240) 520(773) 31(95)</p> <p>191(46) 404(221) 114(146)</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>30(31) 201(141) 54(30)</p> <p>28(63) 712(825) 44(139)</p> <p>33(43) 752(958) 71(47)</p> <p>102(46) 183(100) 104(131)</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>67(101) 197(847) 130(464)</p> <p>181(83) 840(457) 250(618)</p> <p>90(71) 537(912) 83(287)</p> <p>174(211) 721(392) 500(250)</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>110(232) 373(660) 155(199)</p> <p>89(163) 492(502) 180(412)</p> <p>176(317) 564(664) 50(91)</p> <p>179(209) 710(603) 264(182)</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>1142(1003) 273(277)</p> <p>138(426) 511(446)</p> <p>946(1210) 291(506)</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>434(446) 0(1) 149(136)</p> <p>759(1074) 0(0)</p> <p>1140(1236) 574(659)</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>408(673) 327(267)</p> <p>394(591) 825(897)</p> <p>242(200) 254(203)</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>396(204) 1147(1196)</p> <p>536(878) 753(493)</p> <p>281(438) 0(0) 331(805)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



EXHIBIT 6-3: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 6-4 (1of3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>811(1440) 216(571)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>608(795) 32(64)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>344(380) 1119(1576) 182(325)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>705(890) 314(161)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>95(258) 870(1034) 144(246)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>83(112) 847(1123) 43(108)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>121(216) 552(849) 53(82)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>134(210) 577(1092) 39(83)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>49(87) 632(1041) 26(40)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>367(407) 920(1073)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>399(390) 2(1) 432(365)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>121(112) 314(385) 120(144)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>150(147) 340(485) 84(87)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>102(95) 184(302) 48(54)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>163(297) 79(300) 68(195)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>112(212) 383(531) 122(298)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>77(40) 36(173) 165(225)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>3(12) 7(32) 12(11)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>120(328) 252(796) 28(58)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>40(149) 12(115) 22(76)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>11(10) 179(469) 35(79)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>95(296) 19(7)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>10(4) 512(786)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>49(64) 487(650) 12(18)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>15(17) 85(302) 2(4)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 6-4 (2OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Approach: 75(115) ↓, 4(1) ↓, 3(13) ↑, 3(12) ↑                  Departure: 127(122) ↑, 19(7) ↓</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Approach: 78(127) ↓, 0(0) ↑                  Departure: 145(129) ↑, 0(0) ↓</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>Approach: 49(72) ↓, 29(54) ↓, 72(39) ↑, 616(540) ↑                  Departure: 73(90) ↑, 441(709) ↓</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Approach: 4(15) ↓, 0(0) ↓, 0(0) ↑, 14(54) ↑                  Departure: 28(10) ↑, 39(14) ↓</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Approach: 2(6) ↓, 33(12) ↑                  Departure: 20(7) ↑, 9(3) ↓, 2(10) ↑, 9(37) ↓</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Approach: 4(15) ↓, 0(0) ↓, 0(0) ↑, 14(54) ↑                  Departure: 28(10) ↑, 39(14) ↓</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Approach: 33(12) ↓, 20(7) ↓                  Departure: 21(86) ↑, 6(2) ↓, 2(6) ↑, 10(40) ↓</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Approach: 5(19) ↓, 24(100) ↓, 106(39) ↑, 20(24) ↑                  Departure: 32(11) ↑, 6(2) ↓</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Approach: 33(12) ↓, 20(7) ↓                  Departure: 21(86) ↑, 6(2) ↓, 2(6) ↑, 10(40) ↓</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Approach: 33(12) ↓, 20(7) ↓                  Departure: 21(86) ↑, 6(2) ↓, 2(6) ↑, 10(40) ↓</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>Approach: 494(640) ↓, 670(945) ↓, 512(299) ↑, 0(0) ↑, 236(268) ↓                  Departure: 245(235) ↑, 1018(854) ↓</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>Approach: 588(874) ↓, 282(413) ↓                  Departure: 601(350) ↑, 1(0) ↑, 218(325) ↓, 697(699) ↑, 325(318) ↓</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>Approach: 106(177) ↓, 573(679) ↓, 97(179) ↓, 195(129) ↑, 204(167) ↑, 21(22) ↓                  Departure: 176(148) ↑, 207(308) ↑, 62(78) ↓, 51(85) ↑, 540(649) ↑, 15(25) ↓</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>Approach: 172(165) ↓, 365(356) ↓, 79(141) ↓, 100(103) ↑, 772(572) ↑, 120(96) ↓                  Departure: 138(167) ↑, 399(612) ↑, 51(40) ↓, 53(61) ↑, 302(470) ↑, 113(139) ↓</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>Approach: 29(27) ↓, 443(403) ↓, 79(64) ↓, 48(59) ↑, 75(40) ↑, 8(7) ↓                  Departure: 57(79) ↑, 89(182) ↑, 57(53) ↓, 79(79) ↑, 371(554) ↑, 9(14) ↓</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>Approach: 52(63) ↓, 388(352) ↓, 50(48) ↓, 39(44) ↑, 99(46) ↑, 40(18) ↓                  Departure: 42(109) ↑, 40(141) ↓, 42(109) ↓, 62(52) ↑, 360(529) ↑, 34(42) ↓</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>Approach: 68(69) ↓, 279(244) ↓, 90(180) ↓, 98(107) ↑, 490(261) ↑, 82(69) ↓                  Departure: 103(111) ↑, 185(427) ↑, 185(77) ↓, 63(214) ↑, 240(407) ↑, 26(154) ↓</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>Approach: 101(53) ↓, 338(294) ↓, 112(48) ↓, 36(130) ↑, 130(55) ↑, 105(38) ↓                  Departure: 33(151) ↑, 70(214) ↑, 15(81) ↓, 72(16) ↑, 285(507) ↑, 16(43) ↓</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Approach: 0 ↓, 0 ↓                  Departure: 0 ↑, 0 ↑</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Approach: 78(29) ↓, 337(389) ↓                  Departure: 22(91) ↑, 12(47) ↓, 50(18) ↑, 352(476) ↑</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Approach: 16(6) ↓, 333(430) ↓                  Departure: 7(28) ↓, 402(493) ↑</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>Approach: 154(162) ↓, 177(313) ↓, 324(224) ↑, 645(426) ↑                  Departure: 138(264) ↑, 323(587) ↓</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>Approach: 9(10) ↓, 84(11) ↓, 60(65) ↓, 149(29) ↑, 486(431) ↑, 256(111) ↓                  Departure: 12(13) ↑, 359(736) ↑, 36(1) ↓, 11(2) ↑, 34(14) ↑, 45(349) ↓</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>Approach: 741(481) ↓, 98(87) ↓                  Departure: 365(760) ↑, 83(121) ↓, 179(108) ↑, 92(123) ↓</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>Approach: 867(514) ↓, 12(6) ↓                  Departure: 404(925) ↑, 37(11) ↓, 11(22) ↑, 17(11) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 6-4 (3OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES**

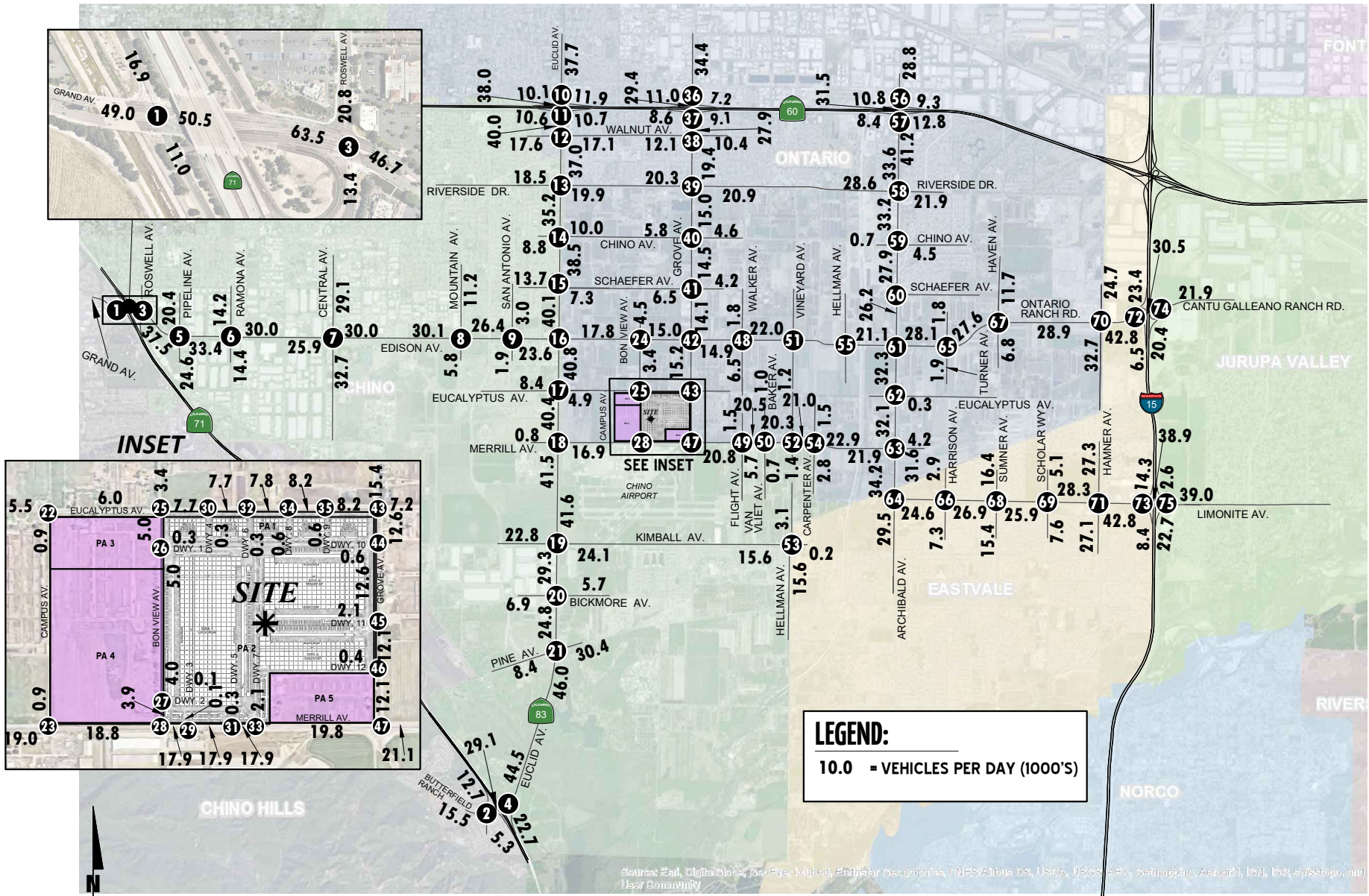
<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>869(498) 24(20)</p> <p>405(943) 12(20)</p> <p>27(24) 17(26)</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>12(98) 28(79) 0(0)</p> <p>0(0) 1(5) 1(4)</p> <p>29(19) 4(2) 254(801)</p> <p>893(311) 70(42) 3(1)</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>11(14) 0(4) 117(73)</p> <p>60(13) 915(455) 115(22)</p> <p>21(9) 383(999) 18(20)</p> <p>12(31) 0(4) 74(121)</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>137(438) 376(1112)</p> <p>439(247) 3(6) 498(415)</p> <p>669(414) 1013(493)</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>765(1154) 110(374)</p> <p>312(83) 2(0) 481(581)</p> <p>1367(825) 600(659)</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>271(278) 585(928) 136(314)</p> <p>178(118) 487(441) 101(154)</p> <p>244(236) 305(641) 250(360)</p> <p>363(321) 1091(738) 49(75)</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>21(12) 801(1137) 126(160)</p> <p>260(120) 2(0) 82(24)</p> <p>88(19) 3(1) 25(6)</p> <p>113(18) 1074(921) 41(52)</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>723(1089) 0(0)</p> <p>0(0) 0(0)</p> <p>1155(912) 0(0)</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>192(106) 486(853) 67(146)</p> <p>125(70) 668(304) 395(321)</p> <p>51(194) 250(786) 60(149)</p> <p>199(109) 1035(648) 394(399)</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>917(1312) 22(11)</p> <p>14(9) 8(2)</p> <p>1614(1146) 9(1)</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>373(209) 526(1057) 34(78)</p> <p>129(51) 56(28) 76(47)</p> <p>210(406) 20(85) 156(664)</p> <p>657(214) 1229(652) 37(42)</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>499(972) 238(799)</p> <p>1012(337) 308(381)</p> <p>932(594) 337(410)</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>70(25) 15(8) 31(28)</p> <p>17(13) 1191(704) 38(31)</p> <p>28(56) 589(1326) 30(41)</p> <p>53(26) 25(8) 36(35)</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>74(30) 119(49) 20(17)</p> <p>19(6) 986(628) 156(236)</p> <p>42(85) 510(1063) 22(60)</p> <p>147(31) 109(46) 221(162)</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>73(121) 56(274)</p> <p>85(137) 1029(610) 19(56)</p> <p>143(131) 615(1116) 28(68)</p> <p>60(22) 201(93) 81(24)</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>156(205) 195(465) 99(121)</p> <p>33(50) 819(638) 120(240)</p> <p>269(240) 538(832) 34(101)</p> <p>199(51) 404(221) 114(146)</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>30(31) 201(141) 54(30)</p> <p>28(63) 765(847) 44(139)</p> <p>33(43) 767(1014) 73(49)</p> <p>106(50) 183(100) 104(131)</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>75(106) 197(847) 130(464)</p> <p>181(83) 963(527) 250(618)</p> <p>93(77) 585(1028) 83(287)</p> <p>174(211) 721(392) 500(250)</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>110(232) 373(660) 155(199)</p> <p>89(163) 541(523) 180(412)</p> <p>176(317) 578(715) 51(95)</p> <p>183(210) 710(603) 264(182)</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>1239(1050) 273(277)</p> <p>138(426) 537(469)</p> <p>982(1314) 303(518)</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>434(446) 0(1) 149(136)</p> <p>808(1095) 0(0)</p> <p>1145(1251) 583(695)</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>416(678) 327(267)</p> <p>397(597) 858(995)</p> <p>260(218) 254(203)</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>396(204) 1163(1204)</p> <p>541(893) 753(493)</p> <p>315(450) 0(2) 331(805)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 6-5: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, SRTM3, and User Community

**EXHIBIT 6-6 (10F3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT  
(PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>1 SR-71 SB Ramps &amp; Grand Av.</b></p> <p>329(479) 2(1) 861(839) 1444(1417) 54(300)</p> <p>814(1441) 216(571)</p>	<p><b>2 SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</b></p> <p>40(73) 29(72) 636(682) 301(290) 214(131)</p> <p>611(796) 32(64)</p> <p>19(19) 251(138)</p>	<p><b>3 Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</b></p> <p>683(800) 45(169) 73(204) 934(1569)</p> <p>344(380) 1147(1586) 182(325)</p> <p>485(385) 74(141) 64(219)</p>	<p><b>4 SR-71 NB Ramps &amp; Euclid Av. (SR-83)</b></p> <p>1055(1197) 782(380)</p> <p>708(891) 314(161)</p> <p>44(131) 867(1083)</p>	<p><b>5 Pipeline Av. &amp; Edison Av.</b></p> <p>53(146) 341(567) 57(130) 40(76) 777(1028) 158(238)</p> <p>95(258) 898(1044) 144(246)</p> <p>146(290) 206(449) 103(171)</p>
<p><b>6 Ramona Av. &amp; Edison Av.</b></p> <p>79(95) 420(396) 44(51) 53(55) 926(1043) 42(71)</p> <p>83(112) 875(1133) 43(108)</p> <p>36(82) 294(425) 52(65)</p>	<p><b>7 Central Av. &amp; Edison Av.</b></p> <p>234(136) 920(803) 74(97) 100(89) 962(717) 294(255)</p> <p>121(216) 580(859) 53(82)</p> <p>72(81) 765(979) 306(406)</p>	<p><b>8 Mountain Av. &amp; Edison Av.</b></p> <p>257(221) 81(177) 79(104) 98(93) 957(771) 10(36)</p> <p>134(210) 608(1103) 39(83)</p> <p>87(40) 160(94) 42(29)</p>	<p><b>9 San Antonio Av. &amp; Riverside Dr.</b></p> <p>96(52) 40(43) 15(12) 21(16) 831(821) 3(7)</p> <p>49(87) 666(1054) 26(40)</p> <p>43(22) 77(31) 14(10)</p>	<p><b>10 Euclid Av. (SR-83) &amp; SR-60 WB Ramps</b></p> <p>460(488) 95(1034) 431(406) 3(2) 435(523)</p> <p>375(439) 921(1077)</p>
<p><b>11 Euclid Av. (SR-83) &amp; SR-60 EB Ramps</b></p> <p>1086(1186) 375(381)</p> <p>399(390) 2(1) 462(375)</p> <p>897(1122) 562(480)</p>	<p><b>12 Euclid Av. (SR-83) &amp; Walnut Av.</b></p> <p>64(161) 1194(1103) 170(289) 221(147) 330(385) 74(71)</p> <p>121(112) 314(385) 123(145)</p> <p>140(217) 1103(1313) 48(82)</p>	<p><b>13 Euclid Av. (SR-83) &amp; Riverside Dr.</b></p> <p>163(207) 1056(927) 198(146) 109(65) 522(433) 193(193)</p> <p>150(147) 340(485) 92(90)</p> <p>79(120) 886(1206) 167(264)</p>	<p><b>14 Euclid Av. (SR-83) &amp; Chino Av.</b></p> <p>97(75) 1185(1055) 55(30) 33(12) 158(122) 69(82)</p> <p>102(95) 184(302) 51(55)</p> <p>56(55) 996(1481) 131(245)</p>	<p><b>15 Euclid Av. (SR-83) &amp; Schaefer Av.</b></p> <p>137(125) 1171(1123) 34(31) 13(26) 190(70) 118(81)</p> <p>163(297) 79(300) 71(196)</p> <p>121(109) 1006(1458) 30(76)</p>
<p><b>16 Euclid Av. (SR-83) &amp; Edison Av.</b></p> <p>149(161) 1012(1248) 152(123) 77(144) 489(448) 77(79)</p> <p>112(212) 417(544) 122(298)</p> <p>222(176) 931(1304) 102(131)</p>	<p><b>17 Euclid Av. (SR-83) &amp; Eucalyptus Av.</b></p> <p>43(73) 1144(1405) 111(75) 52(109) 169(36) 30(8)</p> <p>77(40) 39(174) 165(225)</p> <p>194(127) 1195(1399) 11(18)</p>	<p><b>18 Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</b></p> <p>44(1) 1029(1322) 249(307) 255(252) 52(2) 275(399)</p> <p>3(12) 7(32) 12(11)</p> <p>12(2) 1137(1261) 354(316)</p>	<p><b>19 Euclid Av. (SR-83) &amp; Kimball Av.</b></p> <p>380(229) 693(1034) 217(484) 316(191) 793(336) 39(68)</p> <p>123(329) 252(796) 28(58)</p> <p>106(76) 1065(1061) 40(41)</p>	<p><b>20 Euclid Av. (SR-83) &amp; Bickmore Av.</b></p> <p>169(138) 646(931) 44(111) 163(68) 219(26) 194(50)</p> <p>40(149) 12(115) 22(76)</p> <p>52(31) 890(776) 29(99)</p>
<p><b>21 Euclid Av. (SR-83) &amp; Pine Av.</b></p> <p>14(4) 709(964) 50(110) 70(50) 323(74) 1030(519)</p> <p>11(10) 179(469) 35(79)</p> <p>44(34) 892(846) 710(1230)</p>	<p><b>22 Campus Av. &amp; Eucalyptus Av.</b></p> <p>280(126) 24(10)</p> <p>98(297) 30(11)</p> <p>8(34) 7(27)</p>	<p><b>23 Campus Av. &amp; Merrill Av.</b></p> <p>7(25) 6(26) 24(8) 661(644)</p> <p>24(8) 546(797)</p>	<p><b>24 Bon View Av. &amp; Edison Av.</b></p> <p>39(47) 116(126) 19(17) 15(7) 625(611) 14(7)</p> <p>49(64) 546(672) 12(18)</p> <p>14(13) 117(115) 10(7)</p>	<p><b>25 Bon View Av. &amp; Eucalyptus Av.</b></p> <p>44(14) 77(107) 20(17) 14(9) 280(121) 114(61)</p> <p>15(17) 88(343) 10(8)</p> <p>21(11) 99(117) 45(133)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES





**EXHIBIT 6-6 (2of3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT  
(PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Approach: 190(173) (down), 12(4) (right), 2(9) (up), 3(12) (left)                  Departure: 163(252) (down), 11(4) (right)</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Approach: 90(175) (down), 1(4) (right)                  Departure: 173(138) (down), 7(3) (right)</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>Approach: 53(88) (down), 37(87) (right), 103(49) (up), 634(532) (left)                  Departure: 77(92) (down), 443(731) (right)</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Approach: 1(4) (down), 1(4) (right), 4(1) (up), 736(576) (left)                  Departure: 4(1) (down), 476(816) (right)</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Approach: 405(182) (down), 9(3) (right)                  Departure: 144(490) (down), 9(3) (right), 2(10) (down), 2(10) (right)</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Approach: 1(4) (down), 1(4) (right), 4(1) (up), 738(573) (left)                  Departure: 4(1) (down), 473(819) (right)</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Approach: 412(175) (down), 9(3) (right)                  Departure: 142(498) (down), 5(2) (right), 3(10) (down), 2(10) (right)</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Approach: 4(18) (down), 30(125) (right), 118(44) (up), 737(557) (left)                  Departure: 21(7) (down), 453(816) (right)</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Approach: 420(172) (down), 13(5) (right)                  Departure: 138(505) (down), 6(2) (right), 2(6) (down), 4(15) (right)</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Approach: 432(171) (down), 17(6) (right)                  Departure: 136(518) (down), 6(2) (right), 2(6) (down), 13(54) (right)</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>Approach: 494(640) (down), 678(948) (right), 512(299) (up), 0(0) (left), 241(270) (down)                  Departure: 247(244) (down), 1020(864) (right)</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>Approach: 603(879) (down), 282(413) (right)                  Departure: 601(350) (down), 1(0) (right), 226(328) (right), 702(718) (down), 327(324) (right)</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>Approach: 106(177) (down), 596(687) (right), 97(179) (up), 195(129) (up), 204(167) (left), 21(22) (down)                  Departure: 176(148) (down), 207(308) (right), 62(78) (right), 51(85) (down), 546(674) (right), 15(25) (right)</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>Approach: 172(165) (down), 388(364) (right), 79(141) (up), 100(103) (up), 772(572) (left), 123(97) (down)                  Departure: 138(167) (down), 399(612) (right), 54(41) (right), 54(65) (down), 308(495) (right), 114(143) (right)</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>Approach: 29(27) (down), 471(414) (right), 79(64) (up), 48(59) (up), 75(40) (left), 8(7) (down)                  Departure: 57(79) (down), 89(182) (right), 57(53) (right), 79(79) (down), 379(586) (right), 9(14) (right)</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>Approach: 52(63) (down), 416(363) (right), 50(48) (up), 39(44) (up), 99(46) (left), 40(18) (down)                  Departure: 42(109) (down), 40(141) (right), 42(109) (right), 62(52) (down), 368(561) (right), 34(42) (right)</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>Approach: 68(69) (down), 307(255) (right), 90(180) (up), 98(107) (up), 490(261) (left), 82(69) (down)                  Departure: 103(111) (down), 185(427) (right), 244(99) (right), 79(281) (down), 248(439) (right), 26(154) (right)</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>Approach: 161(75) (down), 366(304) (right), 112(48) (up), 36(130) (up), 214(86) (left), 110(39) (down)                  Departure: 49(217) (down), 85(278) (right), 15(78) (right), 72(16) (down), 293(538) (right), 25(78) (right)</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Approach: 39(14) (down), 452(407) (right)                  Departure: 6(25) (down), 15(5) (down), 390(633) (right)</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Approach: 90(34) (down), 368(398) (right)                  Departure: 22(91) (down), 11(44) (right), 35(12) (down), 383(547) (right)</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Approach: 16(6) (down), 363(437) (right)                  Departure: 7(29) (down), 418(559) (right)</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>Approach: 156(157) (down), 178(316) (right), 324(223) (up), 733(457) (left)                  Departure: 147(299) (down), 346(678) (right)</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>Approach: 9(10) (down), 84(11) (right), 60(65) (up), 149(29) (up), 486(431) (left), 344(143) (down)                  Departure: 12(13) (down), 359(736) (right), 36(1) (right), 11(2) (down), 34(14) (right), 68(446) (right)</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>Approach: 823(509) (down), 98(87) (right)                  Departure: 387(848) (down), 85(127) (right), 184(110) (down), 92(123) (right)</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>Approach: 949(542) (down), 12(6) (right)                  Departure: 426(1013) (down), 37(11) (right), 11(22) (down), 17(11) (right)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 6-6 (30F3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT  
(PROJECT BUILDOUT) TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>945(524) 24(20)</p> <p>425(1025) 14(26)</p> <p>32(26) 17(26)</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>12(98) 30(85) 0(0)</p> <p>0(0) 1(5) 1(4)</p> <p>29(19) 4(2)</p> <p>254(801)</p> <p>893(311) 75(44) 3(1)</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>11(14) 0(4) 117(73)</p> <p>60(13) 991(481) 115(22)</p> <p>21(9)</p> <p>403(1081) 18(20)</p> <p>12(31) 0(4) 74(121)</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>2040 Analysis Location</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>137(438) 379(1113)</p> <p>439(247) 3(6) 527(425)</p> <p>669(414) 1014(497)</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>797(1165) 110(374)</p> <p>312(83) 2(0) 481(581)</p> <p>1368(829) 607(690)</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>271(278) 617(939) 136(314)</p> <p>178(118) 487(441) 106(156)</p> <p>244(236) 305(641) 253(361)</p> <p>364(325) 1099(772) 51(81)</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>21(12) 841(1151) 126(160)</p> <p>260(120) 2(0) 85(25)</p> <p>88(19) 3(1) 25(6)</p> <p>113(18) 1085(964) 42(56)</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>767(1104) 0(0)</p> <p>0(0) 0(0)</p> <p>1166(959) 0(0)</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>220(117) 500(858) 67(146)</p> <p>125(70) 728(325) 404(324)</p> <p>58(226) 266(853) 60(149)</p> <p>199(109) 1039(663) 397(407)</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>941(1320) 22(11)</p> <p>14(9) 8(2)</p> <p>1620(1169) 9(1)</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>397(217) 526(1057) 34(78)</p> <p>129(51) 59(29) 76(47)</p> <p>216(429) 21(89) 170(719)</p> <p>707(232) 1229(652) 37(42)</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>502(985) 249(841)</p> <p>1051(350) 308(381)</p> <p>943(598) 337(410)</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>73(26) 15(8) 31(28)</p> <p>17(13) 1256(728) 38(31)</p> <p>29(60) 607(1398) 30(41)</p> <p>53(26) 25(8) 36(35)</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>74(30) 119(49) 20(17)</p> <p>19(6) 1025(641) 156(236)</p> <p>42(85) 521(1105) 22(60)</p> <p>147(31) 109(46) 221(162)</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>76(122) 56(274) 123(178)</p> <p>85(137) 1092(632) 19(56)</p> <p>144(135) 632(1185) 28(68)</p> <p>60(22) 201(93) 81(24)</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>156(205) 195(465) 99(121)</p> <p>33(50) 855(651) 120(240)</p> <p>269(240) 548(871) 35(105)</p> <p>202(52) 404(221) 114(146)</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>30(31) 201(141) 54(30)</p> <p>28(63) 801(860) 44(139)</p> <p>33(43) 777(1053) 73(49)</p> <p>106(50) 183(100) 104(131)</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>78(107) 197(847) 130(464)</p> <p>181(83) 1023(549) 250(618)</p> <p>94(81) 601(1094) 83(287)</p> <p>174(211) 721(392) 500(250)</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>110(232) 373(660) 155(199)</p> <p>89(163) 574(534) 180(412)</p> <p>176(317) 587(751) 52(99)</p> <p>186(211) 710(603) 264(182)</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>1296(1070) 273(277)</p> <p>138(426) 540(470)</p> <p>998(1380) 303(518)</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>434(446) 0(1) 149(136)</p> <p>841(1106) 0(0)</p> <p>1147(1261) 589(722)</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>419(679) 327(267)</p> <p>398(601) 873(1057)</p> <p>260(218) 254(203)</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>396(204) 1171(1207)</p> <p>543(903) 753(493)</p> <p>339(459) 0(2) 331(805)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



## 6.5 INTERSECTION OPERATIONS ANALYSIS

### 6.5.1 OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Opening Year Cumulative (2024) Without Project conditions with roadway and intersection geometrics consistent with Section 6.1 *Roadway Improvements*. As shown on Table 6-1, the following additional study area intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2024) Without Project traffic conditions:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Grove Avenue & SR-60 EB Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM peak hour only
- Archibald Avenue & Merrill Avenue (#63) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#56) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#63) – LOS E AM peak hour; LOS F PM peak hour

A summary of the peak hour intersection LOS for Opening Year Cumulative (2024) Without Project conditions is shown on Exhibit 6-7. The intersection operations analysis worksheets for Opening Year Cumulative (2024) Without Project traffic conditions are included in Appendix 6.1 of this TA.

**Table 6-1**  
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Intersection Analysis for Opening Year Cumulative (2024) Conditions - Phase 1

#	Intersection	Traffic Control <sup>2</sup>	2024 Without Project				2024 With Project (Phase 1)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	27.2	43.8	C	D	27.3	44.4	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	42.3	37.6	D	D	42.5	37.9	D	D	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	27.2	26.8	C	C	28.3	26.8	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	38.1	53.4	D	D	41.3	54.1	D	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	21.3	34.5	C	C	21.3	35.0	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	29.2	35.6	C	D	29.6	37.5	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	45.0	51.0	D	D	46.4	54.6	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	25.8	22.6	C	C	26.0	22.8	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.3	9.8	B	A	11.4	9.9	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.6	28.0	C	C	29.3	39.0	C	D	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	45.3	27.8	D	C	51.8	32.3	D	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	35.1	39.0	C	D	35.7	40.0	D	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	<b>71.2</b>	<b>104.9</b>	<b>E</b>	<b>F</b>	<b>82.2</b>	<b>122.2</b>	<b>F</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	26.7	32.1	C	C	29.2	39.4	C	D	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	38.4	45.2	D	D	46.8	53.2	D	D	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	<b>69.0</b>	<b>81.9</b>	<b>E</b>	<b>F</b>	<b>85.3</b>	<b>120.6</b>	<b>F</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	20.9	19.5	C	B	24.2	23.1	C	C	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	<b>60.5</b>	<b>94.5</b>	<b>E</b>	<b>F</b>	<b>78.8</b>	<b>123.6</b>	<b>E</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	36.1	<b>70.5</b>	D	E	41.2	<b>82.7</b>	D	F	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	20.9	16.8	C	B	23.6	17.4	C	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	53.7	<b>99.0</b>	D	F	<b>69.3</b>	<b>118.2</b>	E	F	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	<b>67.3</b>	<b>71.2</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	10.1	11.2	B	B	10.7	11.8	B	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	<u>CSS</u>	Future Intersection				9.8	10.1	A	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	<u>CSS</u>	Future Intersection				9.2	9.1	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	30.5	<b>87.9</b>	D	F	<b>46.1</b>	<b>&gt;100.0</b>	E	F	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	<u>CSS</u>	Future Intersection				23.0	26.6	C	D	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.4	11.1	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	<u>CSS</u>	Future Intersection				23.0	26.6	C	D	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.4	11.2	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	<u>TS</u>	Future Intersection				12.4	13.1	B	B	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				9.9	10.8	A	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				9.2	10.5	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	34.8	22.3	C	C	37.3	24.0	D	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	<b>74.4</b>	42.2	<b>E</b>	D	<b>78.3</b>	46.8	<b>E</b>	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	32.4	29.5	C	C	33.4	30.1	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	51.9	65.1	D	E	71.0	<b>104.9</b>	E	F	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	32.5	46.4	D	E	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	18.7	38.7	C	E	<b>89.4</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	22.7	<b>&gt;100.0</b>	C	F	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
44	Grove Av. & Driveway 10	<u>CSS</u>	Future Intersection				10.1	9.9	B	A	Ontario / LOS E
45	Grove Av. & Driveway 11	<u>CSS</u>	Future Intersection				18.3	32.2	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	<u>CSS</u>	Future Intersection				10.9	12.2	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	CSS	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	<b>71.4</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E

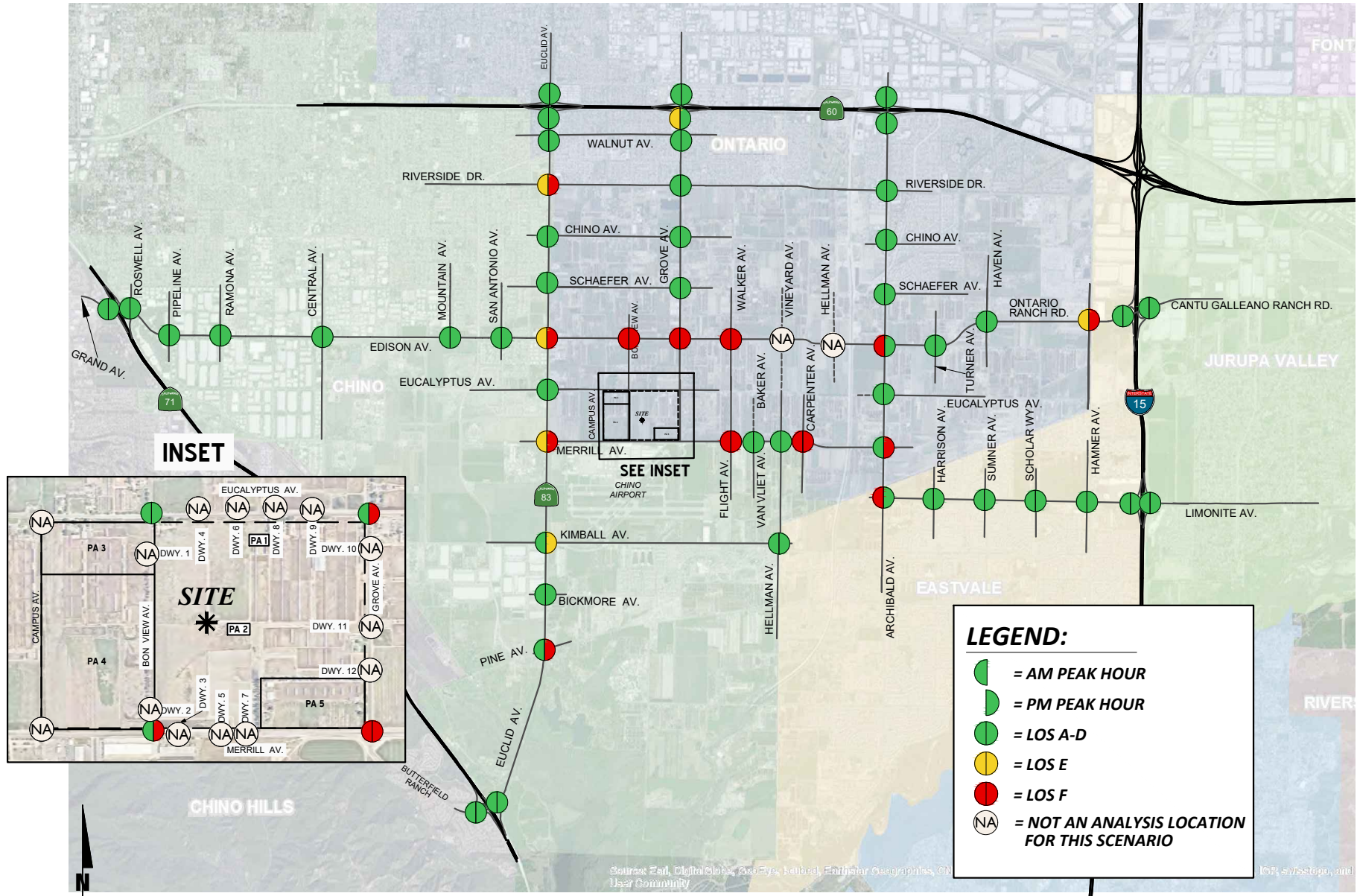
**Table 6-1**  
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Intersection Analysis for Opening Year Cumulative (2024) Conditions - Phase 1

#	Intersection	Traffic Control <sup>2</sup>	2024 Without Project				2024 With Project (Phase 1)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
49	Walker Av./Flight Av. & Merrill Av.	CSS	>100.0	69.4	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	14.9	21.4	B	C	16.9	26.8	C	D	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	20.5	22.4	C	C	26.5	29.9	D	D	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	23.4	18.8	C	B	23.7	19.0	C	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	19.2	25.5	B	C	20.2	25.6	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	18.8	19.4	B	B	18.8	19.5	B	B	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	57.5	67.7	E	E	62.5	74.6	E	E	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	25.4	20.7	C	C	28.1	23.3	C	C	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.7	1.0	A	A	0.7	1.0	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	<b>80.8</b>	39.1	F	D	<b>108.9</b>	51.8	F	D	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	7.0	3.9	A	A	7.3	4.2	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	77.6	<b>96.1</b>	E	F	<b>109.5</b>	<b>153.8</b>	F	F	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	<b>107.8</b>	52.2	F	D	<b>128.9</b>	<b>74.5</b>	F	E	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	18.9	17.3	B	B	21.1	19.4	C	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	20.5	18.2	C	B	20.8	18.2	C	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	25.4	24.3	C	C	25.7	24.6	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	20.9	21.1	C	C	21.4	21.7	C	C	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	17.6	15.9	B	B	17.8	16.2	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	<b>64.0</b>	<b>158.3</b>	E	F	<b>71.4</b>	<b>163.4</b>	E	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	27.5	31.7	C	C	28.3	32.5	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	17.7	14.2	B	B	19.6	14.8	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	8.2	6.8	A	A	8.3	6.8	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	23.1	14.2	C	B	23.5	18.0	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	8.4	12.9	A	B	9.0	12.9	A	B	Jurupa Valley, Caltrans / LOS D

<sup>1</sup> **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).  
<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.  
<sup>3</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

**EXHIBIT 6-7: OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT SUMMARY OF LOS**



### 6.5.2 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC CONDITIONS

As shown on Table 6-1 and illustrated on Exhibit 6-8, the following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Phase 1) traffic conditions with the addition of Phase 1 Project traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for Opening Year Cumulative (2024) With Project (Phase 1) traffic conditions are included in Appendix 6.2 of this TA.

### 6.5.3 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC CONDITIONS

As shown on Table 6-2 and illustrated on Exhibit 6-9, the following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions with the addition of Project Buildout traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Campus Avenue & Merrill Avenue (#23) – LOS F PM peak hour only
- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

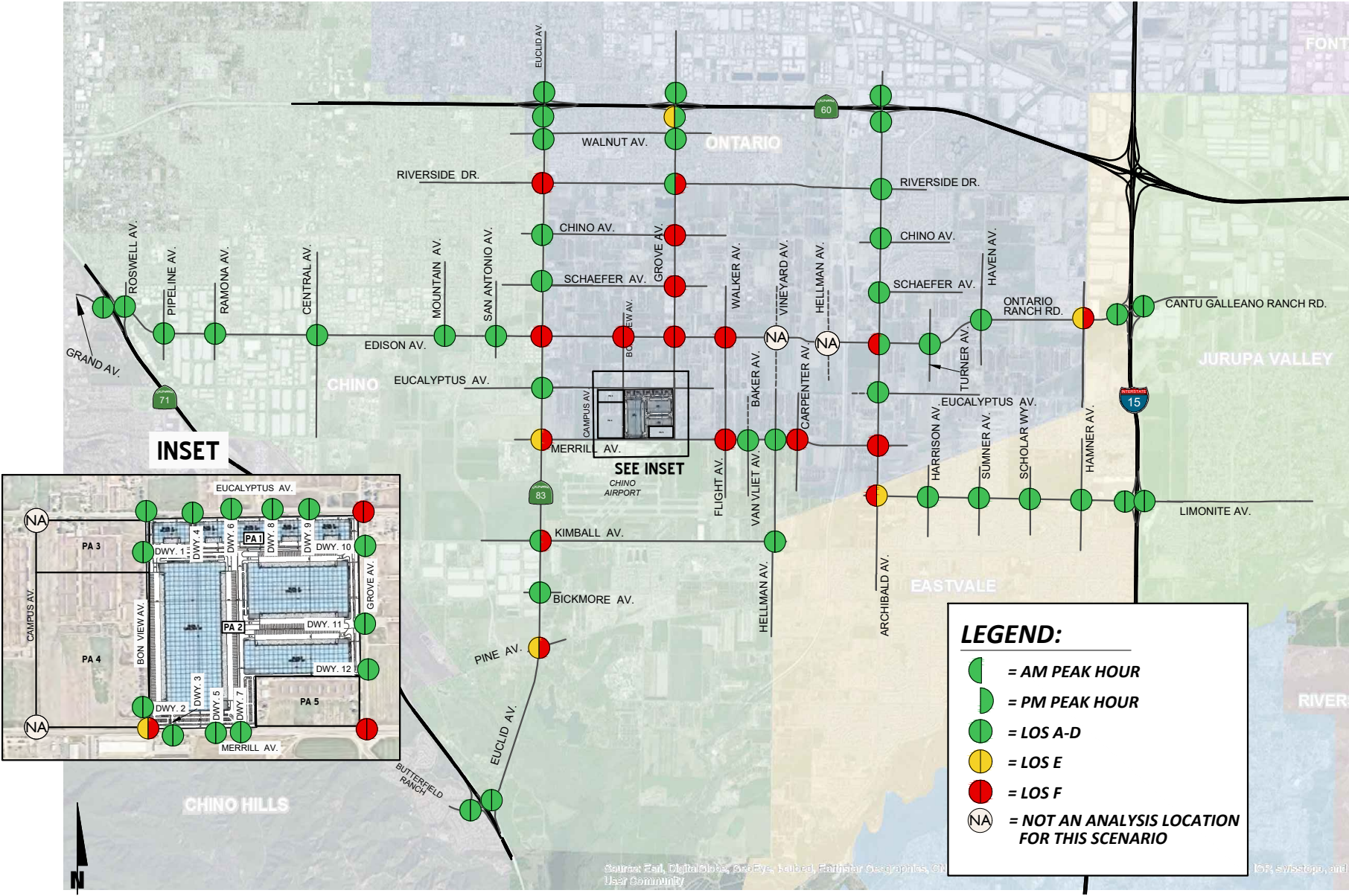
The intersection operations analysis worksheets for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions are included in Appendix 6.3 of this TA.

## 6.6 TRAFFIC SIGNAL WARRANTS ANALYSIS

There are no additional unsignalized study area intersections anticipated to meet a peak hour or daily volume-based traffic signal warrant under Opening Year Cumulative (2024) Without Project and With Project (Phase 1) traffic conditions, in addition to the locations previously identified under Existing and E+P (Phase 1) traffic conditions (see Appendices 6.4 and 6.5, respectively).

Similarly, there are no additional unsignalized study area intersections anticipated to meet a peak hour or daily volume-based traffic signal warrant under Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions (see Appendix 6.6).

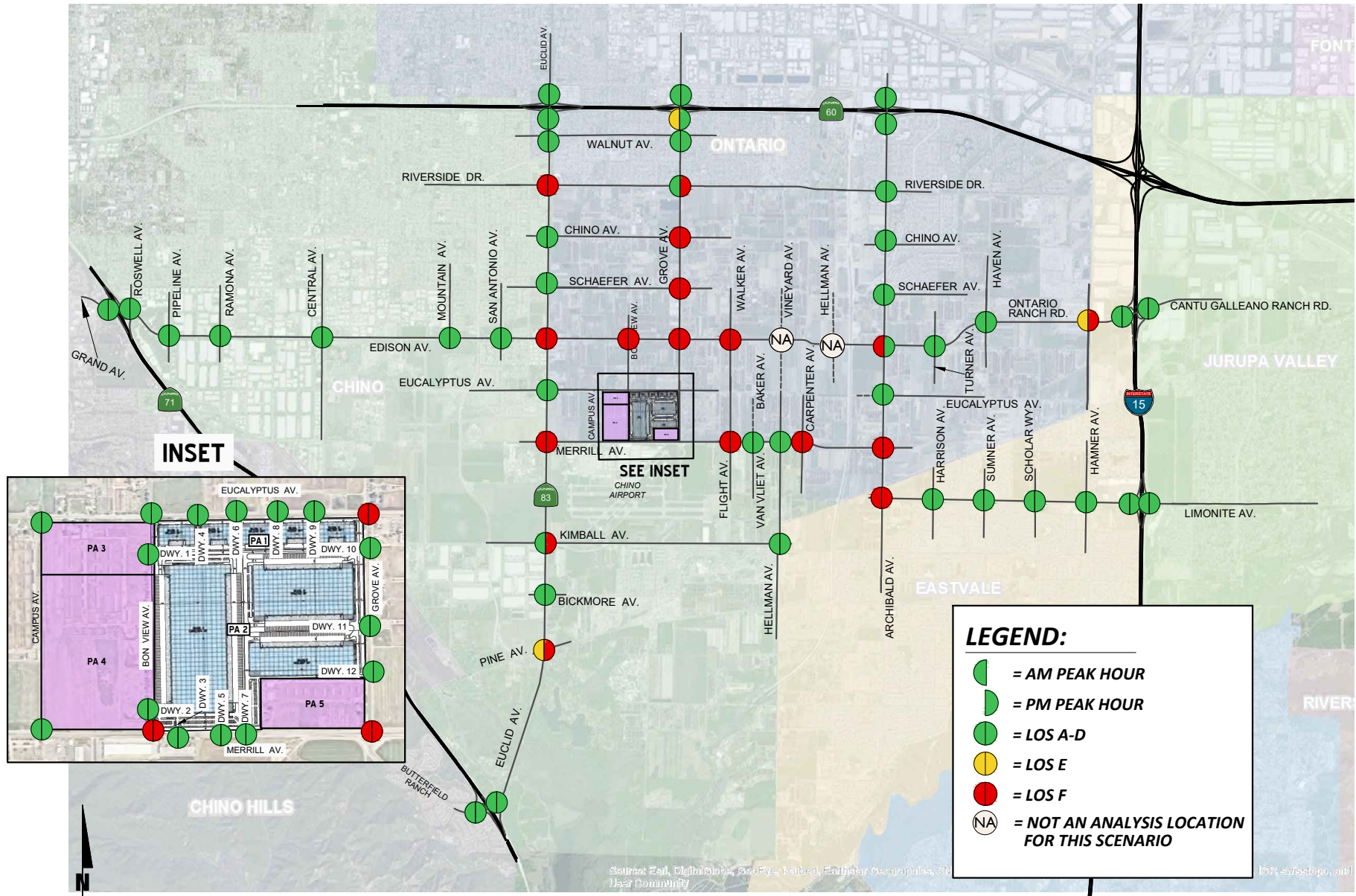
EXHIBIT 6-8: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) SUMMARY OF LOS



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR User Community, IGN, swisstopo, and



**EXHIBIT 6-9: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) SUMMARY OF LOS**



**Table 6-2**  
Page 1 of 2

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Project Buildout

#	Intersection	Traffic Control <sup>2</sup>	2024 Without Project				2024 With Project (Project Buildout)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	27.2	43.8	C	D	27.3	44.5	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	42.3	37.6	D	D	42.6	38.7	D	D	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	27.2	26.8	C	C	29.9	27.2	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	38.1	53.4	D	D	43.3	54.8	D	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	21.3	34.5	C	C	21.3	35.2	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	29.2	35.6	C	D	29.7	38.3	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	45.0	51.0	D	D	46.8	54.7	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	25.8	22.6	C	C	26.1	22.9	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.3	9.8	B	A	11.3	9.9	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.6	28.0	C	C	30.3	49.0	C	D	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	45.3	27.8	D	C	53.5	37.6	D	D	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	35.1	39.0	C	D	36.3	40.8	D	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	<b>71.2</b>	<b>104.9</b>	<b>E</b>	<b>F</b>	<b>89.4</b>	<b>133.4</b>	<b>F</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	26.7	32.1	C	C	30.6	45.0	C	D	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	38.4	45.2	D	D	54.7	53.9	D	D	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	<b>69.0</b>	<b>81.9</b>	<b>E</b>	<b>F</b>	<b>97.2</b>	<b>178.8</b>	<b>F</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	20.9	19.5	C	B	26.4	25.4	C	C	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	<b>60.5</b>	<b>94.5</b>	<b>E</b>	<b>F</b>	<b>88.0</b>	<b>140.5</b>	<b>F</b>	<b>F</b>	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	36.1	<b>70.5</b>	D	E	44.2	<b>86.2</b>	D	F	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	20.9	16.8	C	B	24.8	17.5	C	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	53.7	<b>99.0</b>	D	F	<b>76.2</b>	<b>126.6</b>	E	F	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	<u>CSS</u>	Future Intersection				12.4	12.6	B	B	Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	<u>CSS</u>	Future Intersection				30.5	<b>65.6</b>	D	F	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	<b>67.3</b>	71.2	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	10.1	11.2	B	B	16.0	13.0	C	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	<u>CSS</u>	Future Intersection				10.7	11.4	B	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	<u>CSS</u>	Future Intersection				9.4	9.2	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	30.5	<b>87.9</b>	D	F	<b>94.9</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	<u>CSS</u>	Future Intersection				25.7	30.5	D	D	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				11.6	13.0	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	<u>CSS</u>	Future Intersection				25.7	30.5	D	D	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				11.7	13.1	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	<u>TS</u>	Future Intersection				13.1	19.7	B	C	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				10.8	12.4	B	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	<u>CSS</u>	Future Intersection				9.6	11.7	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	34.8	22.3	C	C	37.6	24.3	D	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	<b>74.4</b>	42.2	<b>E</b>	D	<b>78.7</b>	48.8	<b>E</b>	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	32.4	29.5	C	C	33.7	30.2	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	51.9	65.1	D	E	73.7	<b>111.6</b>	E	F	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	32.5	46.4	D	E	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	18.7	38.7	C	E	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	22.7	<b>&gt;100.0</b>	C	F	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E
44	Grove Av. & Driveway 10	<u>CSS</u>	Future Intersection				10.2	9.9	B	A	Ontario / LOS E
45	Grove Av. & Driveway 11	<u>CSS</u>	Future Intersection				19.1	33.6	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	<u>CSS</u>	Future Intersection				9.8	10.3	A	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	CSS	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	<b>71.4</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	<b>&gt;100.0</b>	<b>&gt;100.0</b>	<b>F</b>	<b>F</b>	Ontario / LOS E

**Table 6-2**  
Page 2 of 2

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Project Buildout

#	Intersection	Traffic Control <sup>2</sup>	2024 Without Project				2024 With Project (Project Buildout)				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
49	Walker Av./Flight Av. & Merrill Av.	CSS	>100.0	69.4	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	14.9	21.4	B	C	18.5	31.9	C	D	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	20.5	22.4	C	C	31.3	34.9	D	D	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	23.4	18.8	C	B	24.1	19.0	C	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	19.2	25.5	B	C	21.2	25.7	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	18.8	19.4	B	B	18.8	19.4	B	B	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	57.5	67.7	E	E	64.2	78.1	E	E	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	25.4	20.7	C	C	30.6	23.5	C	C	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.7	1.0	A	A	0.8	1.6	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	<b>80.8</b>	39.1	F	D	<b>122.6</b>	59.8	F	E	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	7.0	3.9	A	A	7.4	4.3	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	77.6	<b>96.1</b>	E	F	<b>135.3</b>	<b>&gt;200.0</b>	F	F	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	<b>107.8</b>	52.2	F	D	<b>140.4</b>	<b>88.4</b>	F	F	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	18.9	17.3	B	B	23.4	21.4	C	C	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	20.5	18.2	C	B	20.9	18.3	C	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	25.4	24.3	C	C	25.8	24.9	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	20.9	21.1	C	C	21.7	22.0	C	C	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	17.6	15.9	B	B	18.0	16.3	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	<b>64.0</b>	<b>158.3</b>	E	F	<b>77.5</b>	<b>166.4</b>	E	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	27.5	31.7	C	C	28.9	33.0	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	17.7	14.2	B	B	21.1	15.2	C	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	8.2	6.8	A	A	8.3	7.2	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	23.1	14.2	C	B	23.7	27.5	C	C	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	8.4	12.9	A	B	9.7	13.0	A	B	Jurupa Valley, Caltrans / LOS D

<sup>1</sup> **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).  
<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.  
<sup>3</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

## **6.7 OFF-RAMP QUEUING ANALYSIS**

Queuing analysis findings for Opening Year Cumulative (2024) Without Project and With Project (Phase 1 and Project Buildout) traffic conditions are shown on Tables 6-3 and 6-4. As shown on Tables 6-3 and 6-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows under Opening Year Cumulative (2024) Without Project and With Project (Phase 1 and Project Buildout) traffic conditions. Worksheets for Opening Year Cumulative (2024) Without and With Project (Phase 1 and Project Buildout) traffic conditions off-ramp queuing analysis are provided in Appendices 6.7, 6.8, and 6.9, respectively.

## **6.8 IMPROVEMENTS**

### **6.8.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS**

Improvement strategies have been identified at intersections that have been identified as deficient, in an effort to reduce each location's peak hour delay and improve the associated LOS grade to an acceptable LOS (LOS D or better).

The effectiveness of the recommended improvement strategies to address Opening Year Cumulative (2024) traffic deficiencies are presented on Table 6-5. If not constructed by the Project, the Project Applicant shall contribute to these improvements through payment of City DIF fees or fair share contribution as identified on Table 1-2. Worksheets for Opening Year Cumulative (2024) Without and With Project (Phase 1 and Project Buildout) conditions, with improvements, HCM calculation worksheets are provided in Appendices 6.10, 6.11, and 6.12, respectively.

### **6.8.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES**

As shown previously on Tables 6-3 and 6-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows for Opening Year Cumulative (2024) traffic conditions. As such, no improvements have been recommended.

**Table 6-3**

**Peak Hour Freeway Off-Ramp Queuing Summary for Opening Year Cumulative (2024) Conditions - Phase 1**

Intersection	Movement	Available Stacking Distance (Feet)	2024 Without Project				2024 With Project (Phase 1)			
			95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>		95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	369	395	Yes	Yes	406	422	Yes	Yes
	SBL/T	1,235	374	396	Yes	Yes	412	423	Yes	Yes
	SBR	570	198	369	Yes	Yes	198	369	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	243	268	Yes	Yes	243	270	Yes	Yes
	SBL/T	1,560	245	267	Yes	Yes	245	270	Yes	Yes
	SBR	255	0	4	Yes	Yes	0	4	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	264	267 <sup>2</sup>	Yes	Yes	264	267 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	271	421 <sup>2</sup>	Yes	Yes	271	421 <sup>2</sup>	Yes	Yes
	NBR	815	8	145	Yes	Yes	8	145	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	29	45	Yes	Yes	29	50	Yes	Yes
	NBR	420	472 <sup>2</sup>	961 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	616 <sup>2</sup>	1,080 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	384 <sup>2</sup>	320	Yes	Yes	384 <sup>2</sup>	320	Yes	Yes
	WBL/T/R	1,430	402 <sup>2</sup>	330 <sup>2</sup>	Yes	Yes	402 <sup>2</sup>	330 <sup>2</sup>	Yes	Yes
	WBR	400	258	240	Yes	Yes	260	240	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	418 <sup>2</sup>	408 <sup>2</sup>	Yes	Yes	418 <sup>2</sup>	408 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	583 <sup>2</sup>	474 <sup>2</sup>	Yes	Yes	693 <sup>2</sup>	513 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	240	313	Yes	Yes	267	337	Yes	Yes
	WBR	250	706 <sup>2</sup>	282	Yes <sup>3</sup>	Yes <sup>3</sup>	706 <sup>2</sup>	287	Yes <sup>3</sup>	Yes <sup>3</sup>
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	917 <sup>2</sup>	567 <sup>2</sup>	Yes	Yes	917 <sup>2</sup>	567 <sup>2</sup>	Yes	Yes
	EBR	315	76	292	Yes	Yes	118	373 <sup>2</sup>	Yes	Yes <sup>3</sup>
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	340 <sup>2</sup>	213	Yes	Yes	385 <sup>2</sup>	224	Yes	Yes
	WBL/T/R	1,389	313	217	Yes	Yes	384 <sup>2</sup>	225	Yes	Yes
	WBR	250	241	55	Yes	Yes	266	55	Yes <sup>3</sup>	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	249	83	Yes	Yes	249	83	Yes	Yes
	EBL/T/R	1,268	179	208	Yes	Yes	195	208	Yes	Yes
	EBR	350	165	196	Yes	Yes	182	196	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	117	101	Yes	Yes	117	101	Yes	Yes
	SBL/R	560	502 <sup>2</sup>	263	Yes	Yes	564 <sup>2</sup>	320 <sup>2</sup>	Yes <sup>3</sup>	Yes
	SBR	460	461 <sup>2</sup>	234	Yes <sup>3</sup>	Yes	523 <sup>2</sup>	261	Yes <sup>3</sup>	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	96	85	Yes	Yes	96	85	Yes	Yes
	SBL/T/R	400	96	86	Yes	Yes	97	86	Yes	Yes
	SBR	1,200	92	168	Yes	Yes	107	171	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	109 <sup>2</sup>	71	Yes	Yes	123 <sup>2</sup>	75	Yes	Yes
	NBR	440	54	46	Yes	Yes	54	47	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	115	156	Yes	Yes	130	161	Yes	Yes
	NBL/T/R	1,235	115	158	Yes	Yes	130	164	Yes	Yes
	NBR	400	46	296	Yes	Yes	46	298	Yes	Yes

<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

**Table 6-4**

**Peak Hour Freeway Off-Ramp Queuing Summary for Opening Year Cumulative (2024) Conditions - Project Buildout**

Intersection	Movement	Available Stacking Distance (Feet)	2024 Without Project				2024 With Project (Project Buildout)			
			95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>		95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	369	395	Yes	Yes	422	427	Yes	Yes
	SBL/T	1,235	374	396	Yes	Yes	427	428	Yes	Yes
	SBR	570	198	369	Yes	Yes	198	369	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	243	268	Yes	Yes	243	268	Yes	Yes
	SBL/T	1,560	245	267	Yes	Yes	245	267	Yes	Yes
	SBR	255	0	4	Yes	Yes	0	4	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	264	267 <sup>2</sup>	Yes	Yes	264	267 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	271	421 <sup>2</sup>	Yes	Yes	271	421 <sup>2</sup>	Yes	Yes
	NBR	815	8	145	Yes	Yes	8	145	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	29	45	Yes	Yes	29	45	Yes	Yes
	NBR	420	472 <sup>2</sup>	961 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	676 <sup>2</sup>	1,069 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	384 <sup>2</sup>	320	Yes	Yes	384 <sup>2</sup>	320	Yes	Yes
	WBL/T/R	1,430	402 <sup>2</sup>	330 <sup>2</sup>	Yes	Yes	402 <sup>2</sup>	330 <sup>2</sup>	Yes	Yes
	WBR	400	258	240	Yes	Yes	260	240	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	418 <sup>2</sup>	408 <sup>2</sup>	Yes	Yes	418 <sup>2</sup>	408 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	583 <sup>2</sup>	474 <sup>2</sup>	Yes	Yes	768 <sup>2</sup>	536 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	240	313	Yes	Yes	271	339	Yes	Yes
	WBR	250	706 <sup>2</sup>	282 <sup>0</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	706 <sup>2</sup>	290	Yes <sup>3</sup>	Yes <sup>3</sup>
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	917 <sup>2</sup>	567 <sup>2</sup>	Yes	Yes	917 <sup>2</sup>	567	Yes	Yes
	EBR	315	76	292	Yes	Yes	131	381	Yes	Yes <sup>3</sup>
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	340 <sup>2</sup>	213	Yes	Yes	421 <sup>2</sup>	226	Yes	Yes
	WBL/T/R	1,389	313	217	Yes	Yes	407 <sup>2</sup>	230	Yes	Yes
	WBR	250	241	55	Yes	Yes	281	55	Yes <sup>3</sup>	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	249	83	Yes	Yes	249	83	Yes	Yes
	EBL/T/R	1,268	179	208	Yes	Yes	204	208	Yes	Yes
	EBR	350	165	196	Yes	Yes	188	196	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	117	101	Yes	Yes	117	101	Yes	Yes
	SBL/R	560	502 <sup>2</sup>	263	Yes	Yes	603 <sup>2</sup>	364 <sup>2</sup>	Yes <sup>3</sup>	Yes
	SBR	460	461 <sup>2</sup>	234	Yes <sup>3</sup>	Yes	561 <sup>2</sup>	271	Yes <sup>3</sup>	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	96	85	Yes	Yes	95	85	Yes	Yes
	SBL/T/R	400	96	86	Yes	Yes	97	86	Yes	Yes
	SBR	1,200	92 <sup>0</sup>	168	Yes	Yes	118	173	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	109 <sup>2</sup>	71	Yes	Yes	123 <sup>2</sup>	75	Yes	Yes
	NBR	440	54	46	Yes	Yes	54	47	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	115	156	Yes	Yes	141	166	Yes	Yes
	NBL/T/R	1,235	115	158	Yes	Yes	141	168	Yes	Yes
	NBR	400	46	296	Yes	Yes	47	299	Yes	Yes

<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

**Table 6-5**  
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**Intersection Analysis for Opening Year Cumulative (2024) Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard					
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM						
			L	T	R	L	T	R	L	T	R	L	T	R	L	T	R							
13	Euclid Av. (SR-83) & Riverside Dr.																							
	- Without Project <sup>4</sup>	TS	1	<u>3</u>	0	1	<u>3</u>	1>	1	<u>2</u>	<u>1</u>	1	2	d	41.4	38.1	D	D	Chino, Ontario,					
	- With Project (Phase 1) <sup>4</sup>	TS	1	<u>3</u>	0	1	<u>3</u>	1>	1	<u>2</u>	<u>1</u>	1	2	d	42.2	39.5	D	D	Caltrans / LOS D					
	- With Project (Project Buildout) <sup>4</sup>	TS	1	<u>3</u>	0	1	<u>3</u>	1>	1	<u>2</u>	<u>1</u>	1	2	d	42.4	40.1	D	D						
16	Euclid Av. (SR-83) & Edison Av.																							
	- Without Project	TS	1	<u>3</u>	1	1	<u>3</u>	1	1	1	1	1	1	<u>1</u>	41.6	43.8	D	D	Chino, Ontario,					
	- With Project (Phase 1)	TS	1	<u>3</u>	1	1	<u>3</u>	1	1	1	1	1	1	<u>1</u>	44.8	49.9	D	D	Caltrans / LOS D					
	- With Project (Project Buildout)	TS	1	<u>3</u>	1	1	<u>3</u>	1	1	1	1	1	1	<u>1</u>	47.2	54.7	D	D						
18	Euclid Av. (SR-83) & Merrill Av.																							
	- Without Project	TS	1	<u>3</u>	1	1	<u>3</u>	0	0	1	0	<u>1</u>	1	<u>1&gt;</u>	18.1	32.0	B	C	Chino, Ontario,					
	- With Project (Phase 1)	TS	1	<u>3</u>	1	1	<u>3</u>	0	0	1	0	<u>1</u>	1	<u>1&gt;</u>	22.2	47.2	C	D	Caltrans / LOS D					
	- With Project (Project Buildout)	TS	1	<u>3</u>	1	1	<u>3</u>	0	0	1	0	<u>1</u>	1	<u>1&gt;</u>	25.5	51.1	C	D						
19	Euclid Av. (SR-83) & Kimball Av.																							
	- Without Project	TS	1	<u>3</u>	1>	2	<u>3</u>	1>	2	2	0	1	2	0	29.2	49.7	C	D	Chino, Caltrans					
	- With Project (Phase 1)	TS	1	<u>3</u>	1>	2	<u>3</u>	1>	2	2	0	1	2	0	30.8	51.8	C	D	/ LOS D					
	- With Project (Project Buildout)	TS	1	<u>3</u>	1>	2	<u>3</u>	1>	2	2	0	1	2	0	31.4	52.1	C	D						
21	Euclid Av. (SR-83) & Pine Av.																							
	- Without Project	TS	1	<u>3</u>	1>>	1	<u>3</u>	0	1	<u>2</u>	1	2	1	0	32.8	28.4	C	C	Chino, Caltrans					
	- With Project (Phase 1)	TS	1	<u>3</u>	1>>	1	<u>3</u>	0	1	<u>2</u>	1	2	1	0	35.6	29.7	D	C	/ LOS D					
	- With Project (Project Buildout)	TS	1	<u>3</u>	1>>	1	<u>3</u>	0	1	<u>2</u>	1	2	1	0	36.7	30.2	D	C						
23	Campus Av. & Merrill Av.																							
	- Without Project					Not Applicable																Chino, Ontario /		
	- With Project (Phase 1)					Not Applicable																LOS D		
	- With Project (Project Buildout)	<u>TS</u>	0	0	0	0	<u>1</u>	0	<u>1</u>	1	0	0	1	0	15.0	14.3	B	B						
24	Bon View Av. & Edison Av.																							
	- Without Project	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	10.6	10.6	B	B	Ontario / LOS E					
	- With Project (Phase 1)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.2	11.2	B	B						
	- With Project (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.4	11.4	B	B						
28	Bon View Av. & Merrill Av.																							
	- Without Project	<u>TS</u>	0	0	0	0	1	0	0	1	0	0	<u>2</u>	0	6.9	8.3	A	A	Chino, Ontario /					
	- With Project (Phase 1)	<u>TS</u>	0	0	0	0	1	0	<u>1</u>	1	0	0	<u>2</u>	<u>1</u>	10.4	13.2	B	B	LOS D					
	- With Project (Project Buildout)	<u>TS</u>	0	0	0	0	1	0	<u>1</u>	1	0	0	<u>2</u>	<u>1</u>	10.8	14.5	A	B						
37	Grove Av. & SR-60 EB Ramps																							
	- Without Project	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	36.2	33.9	D	C	Ontario,					
	- With Project (Phase 1)	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	36.4	37.2	D	D	Caltrans / LOS D					
	- With Project (Project Buildout)	TS	0	2	0	1	2	0	<u>1</u>	1	1	0	0	0	36.6	38.0	D	D						
39	Grove Av. & Riverside Av.																							
	- Without Project					Not Applicable																Ontario / LOS E		
	- With Project (Phase 1)	TS	1	<u>2</u>	0	1	<u>2</u>	1	1	1	0	1	2	0	44.6	57.8	D	E						
	- With Project (Project Buildout)	TS	1	<u>2</u>	0	1	<u>2</u>	1	1	1	0	1	2	0	45.0	59.4	D	E						
40	Grove Av. & Chino Av.																							
	- Without Project					Not Applicable																Ontario / LOS E		
	- With Project (Phase 1)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.7	14.7	B	B						
	- With Project (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	12.0	15.5	B	B						
41	Grove Av. & Schaefer Av.																							
	- Without Project					Not Applicable																Ontario / LOS E		
	- With Project (Phase 1)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.2	13.4	B	B						
	- With Project (Project Buildout)	<u>TS</u>	0	1	0	0	1	0	0	1	0	0	1	0	11.3	14.1	B	B						

**Table 6-5**  
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**Intersection Analysis for Opening Year Cumulative (2024) Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard		
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM			
			L	T	R	L	T	R	L	T	R	L	T	R	L	T	R				
42	Grove Av. & Edison Av.																				
	- Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	23.2	29.9		C	C		Ontario / LOS E
	- With Project (Phase 1)	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	33.1	41.2		C	D		
	- With Project (Project Buildout)	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	35.4	47.4		D	D		
43	Grove Av. & Eucalyptus Av.																				
	- Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	14.4	22.8		B	C		Ontario / LOS E
	- With Project (Phase 1)	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	15.1	57.6		B	E		
	- With Project (Project Buildout)	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	15.1	76.6		B	E		
47	Grove Av. & Merrill Av.																				
	- Without Project	TS	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	1	0	0	<u>2</u>	0	15.0	14.3		B	B		Chino, Ontario / LOS D
	- With Project (Phase 1)	TS	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	1	0	0	<u>2</u>	0	20.1	24.0		C	C		
	- With Project (Project Buildout)	TS	0	0	0	<u>1</u>	0	<u>1</u>	<u>1</u>	1	0	0	<u>2</u>	0	22.1	25.8		C	C		
48	Walker Av. & Edison Av.																				
	- Without Project	TS	0	1	0	0	1	0	0	1	0	0	1	0	10.7	9.9		B	A		Ontario / LOS E
	- With Project (Phase 1)	TS	0	1	0	0	1	0	0	1	0	0	1	0	15.3	12.1		B	B		
	- With Project (Project Buildout)	TS	0	1	0	0	1	0	0	1	0	0	1	0	35.9	26.6		D	C		
49	Walker Av./Flight Av. & Merrill Av.																				
	- Without Project	TS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	1	1	1	<u>2</u>	0	14.8	15.7		B	B		Chino, Ontario / LOS D
	- With Project (Phase 1)	TS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	1	1	1	<u>2</u>	0	15.2	21.9		B	C		
	- With Project (Project Buildout)	TS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	1	1	1	<u>2</u>	0	15.8	32.5		B	C		
54	Carpenter Av. & Merrill Av.																				
	- Without Project	TS	0	1	0	0	1	0	1	1	1	1	1	0	11.0	11.3		B	B		Chino, Ontario / LOS D
	- With Project (Phase 1)	TS	0	1	0	0	1	0	1	1	1	1	1	0	17.3	14.9		B	B		
	- With Project (Project Buildout)	TS	0	1	0	0	1	0	1	1	1	1	1	0	28.5	26.6		C	C		
61	Archibald Av. & Ontario Ranch Rd.																				
	- Without Project	TS	1	2	1>>	1	2	1	2	2	1>>	2	<u>2</u>	1	42.9	38.9		D	D		Ontario / LOS E
	- With Project (Phase 1)	TS	1	2	1>>	1	2	1	2	2	1>>	2	<u>2</u>	1	66.5	49.2		E	D		
	- With Project (Project Buildout)	TS	1	2	1>>	1	2	1	2	2	1>>	2	<u>2</u>	1	78.0	55.6		E	E		
63	Archibald Av. & Merrill Av.																				
	- Without Project	TS	<u>2</u>	2	1	2	2	<u>1</u> >	<u>2</u>	1	1	1	1	1	24.6	32.1		C	C		Ontario / LOS E
	- With Project (Phase 1)	TS	<u>2</u>	2	1	2	2	<u>1</u> >	<u>2</u>	1	1	1	1	1	27.4	49.0		C	D		
	- With Project (Project Buildout)	TS	<u>2</u>	2	1	2	2	<u>1</u> >	<u>2</u>	1	1	1	1	1	30.4	70.5		C	E		
64	Archibald Av. & Limonite Av.																				
	- Without Project	TS	0	1	1>	<u>2</u>	1	0	0	0	0	1	0	<u>2</u> >	34.8	19.1		C	B		Eastvale / LOS D
	- With Project (Phase 1)	TS	0	1	1>	<u>2</u>	1	0	0	0	0	1	0	<u>2</u> >	41.2	21.9		D	C		
	- With Project (Project Buildout)	TS	0	1	1>	<u>2</u>	1	0	0	0	0	1	0	<u>2</u> >	43.6	23.3		D	C		
70	Hamner Av. & Ontario Ranch Rd.																				
	- Without Project <sup>5</sup>	TS	2	3	1	2	<u>3</u>	0	2	4	0	2	<u>3</u>	1	45.9	66.6		D	E		Eastvale, Ontario / LOS D
	- With Project (Phase 1) <sup>5</sup>	TS	2	3	1	2	<u>3</u>	0	2	4	0	2	<u>3</u>	1	49.6	71.1		D	E		
	- With Project (Project Buildout) <sup>5</sup>	TS	2	3	1	2	<u>3</u>	0	2	4	0	2	<u>3</u>	1	51.3	73.7		D	E		

<sup>1</sup> When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d= Defacto Right Turn Lane; 1 = Improvement

<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>3</sup> AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; TS = Improvement

<sup>4</sup> Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

<sup>5</sup> Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.



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## 7 HORIZON YEAR (2040) TRAFFIC CONDITIONS

This section discusses the methods used to develop Horizon Year (2040) Without and With Project traffic forecasts, and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses.

### 7.1 ROADWAY IMPROVEMENTS

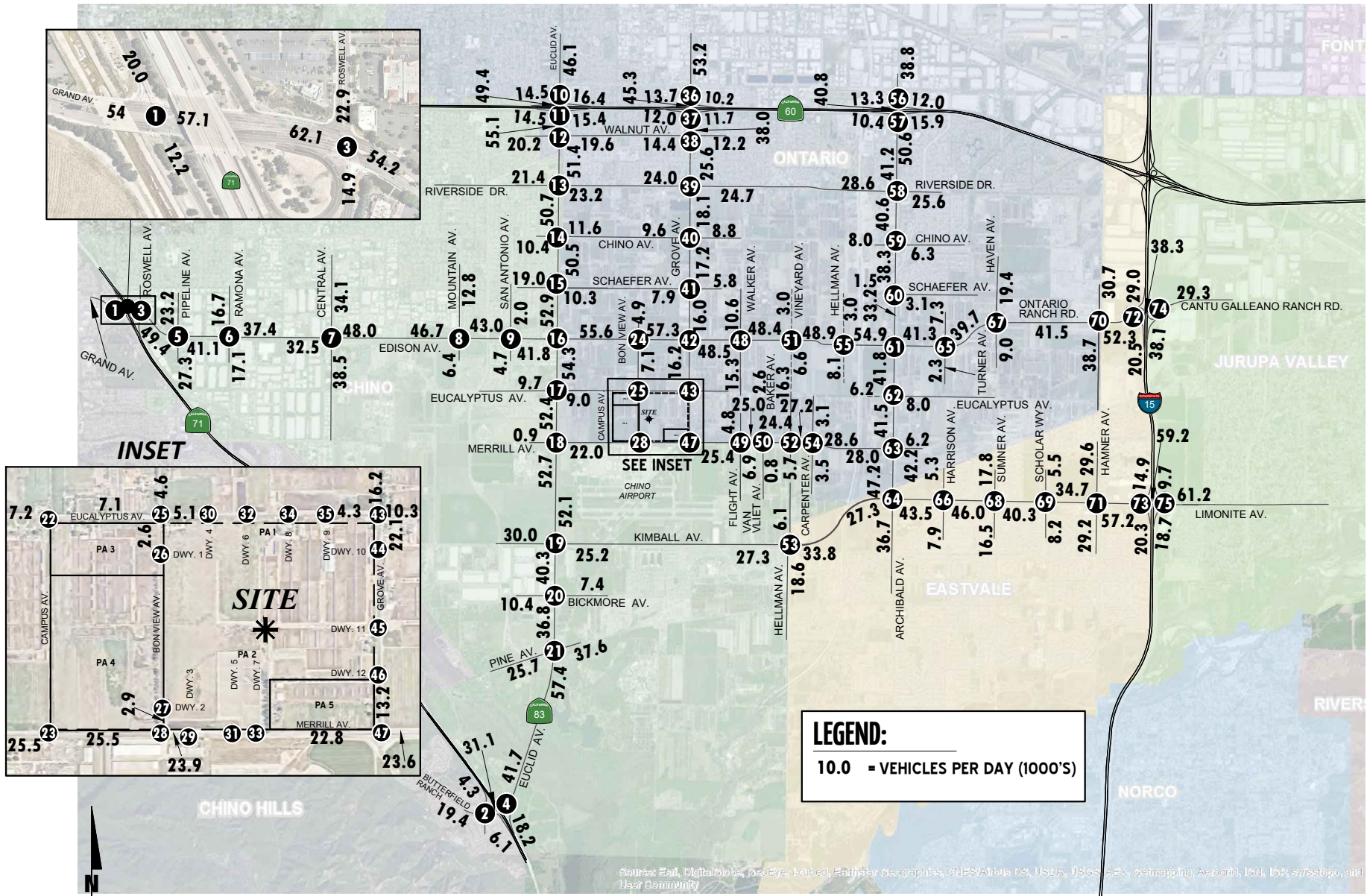
The lane configurations and traffic controls assumed to be in place for Horizon Year (2040) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- Driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the cumulative development's frontages and driveways such as the northern extension of Meadow Valley Avenue on Kimball Avenue and the northern extension of Hellman Avenue north of Kimball Avenue).
- The Pine Avenue extension between its El Prado Road and the SR-71 Freeway.
- The Kimball Avenue/Limonite Avenue extension between Hellman Avenue and Archibald Avenue.
- Other parallel facilities, that although not evaluated for the purposes of this analysis, are anticipated to be in place for Horizon Year traffic conditions and would affect the travel patterns within the study area (e.g., new future roadways within the New Model Colony area such as Schaefer Avenue east of Archibald Avenue, Eucalyptus Avenue east of Archibald Avenue, Merrill Avenue east of Archibald Avenue, The Preserve Specific Plan roadway network within the City of Chino, etc.).

### 7.2 HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the SBTAM/RivTAM (see Section 4.7 *Horizon Year (2040) Volume Development* of this TA for a detailed discussion on the post-processing methodology). The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Horizon Year (2040) Without Project traffic conditions are shown on Exhibits 7-1 and 7-2, respectively.

EXHIBIT 7-1: HORIZON YEAR (2040) WITHOUT PROJECT AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 7-2 (10F3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>370(531) 5(1) 1054(1047) 1662(1594) 206(337)</p> <p>1157(1800) 241(630)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>14(37) 30(75) 669(1040) 410(310) 234(170)</p> <p>824(997) 36(67)</p> <p>21(20) 330(169)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>809(908) 117(185) 179(290) 1509(1976)</p> <p>632(449) 1372(1937) 209(459)</p> <p>564(431) 84(156) 78(244)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>1686(1628) 401(54)</p> <p>531(1035) 49(6)</p> <p>156(181) 578(1304)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>153(282) 470(693) 107(178) 62(103) 1007(1193) 180(265)</p> <p>200(389) 091(1259) 171(271)</p> <p>171(353) 264(538) 118(194)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>103(115) 505(454) 57(71) 78(75) 1187(1249) 139(188)</p> <p>110(128) 117(1453) 74(128)</p> <p>49(104) 343(491) 144(162)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>286(156) 1080(921) 111(133) 137(117) 1309(1016) 425(378)</p> <p>169(250) 863(1266) 65(117)</p> <p>87(128) 901(1149) 465(598)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>302(246) 90(195) 132(130) 126(110) 1396(1243) 11(49)</p> <p>209(236) 063(1713) 47(93)</p> <p>96(43) 176(106) 49(36)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>107(57) 53(52) 33(14) 24(20) 1242(1363) 6(15)</p> <p>53(97) 252(1682) 32(64)</p> <p>87(31) 97(35) 69(15)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>593(598) 1226(1256) 516(495) 7(8) 837(779)</p> <p>547(604) 190(1337)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>1604(1578) 459(458)</p> <p>520(505) 3(4) 662(536)</p> <p>216(1436) 867(793)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>123(265) 1843(1559) 189(320) 258(170) 388(449) 91(85)</p> <p>252(179) 365(449) 145(177)</p> <p>161(235) 1600(1900) 58(90)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>192(345) 1614(1333) 223(173) 147(80) 623(506) 241(229)</p> <p>193(234) 464(732) 114(194)</p> <p>153(184) 1331(1678) 201(295)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>116(87) 1732(1501) 74(39) 82(20) 292(230) 105(137)</p> <p>131(134) 254(498) 57(68)</p> <p>66(63) 1424(1957) 180(278)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>457(455) 1625(1528) 43(203) 188(75) 377(158) 177(95)</p> <p>193(487) 92(463) 92(263)</p> <p>228(234) 1362(1879) 44(100)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>211(220) 1461(1618) 221(177) 319(268) 1126(655) 254(472)</p> <p>196(334) 930(1206) 189(387)</p> <p>289(253) 1299(1795) 221(350)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>53(80) 1640(1838) 156(276) 198(284) 193(152) 385(413)</p> <p>88(51) 36(201) 205(266)</p> <p>221(148) 1601(1845) 133(383)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>49(1) 1806(2122) 375(394) 461(429) 60(3) 387(599)</p> <p>10(14) 10(37) 21(15)</p> <p>13(5) 1493(1903) 423(800)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>491(423) 1307(1422) 280(541) 418(293) 941(435) 226(105)</p> <p>222(605) 322(975) 109(206)</p> <p>178(147) 1269(1383) 68(159)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>250(204) 1294(1466) 107(187) 215(166) 264(37) 241(70)</p> <p>88(226) 16(143) 47(138)</p> <p>92(55) 125(1429) 40(126)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>132(124) 1059(1199) 163(391) 341(247) 980(611) 829(482)</p> <p>88(119) 303(911) 204(224)</p> <p>171(278) 903(1113) 214(891)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>0(0) 0(0) 0(0) 0(0) 713(493) 0(0)</p> <p>0(0) 143(767) 47(18)</p> <p>0(0) 0(0) 0(0)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>0(0) 0(0) 31(11) 1032(905)</p> <p>0(0) 755(1186)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>55(58) 127(102) 23(21) 20(9) 2315(2127) 51(95)</p> <p>61(86) 730(2444) 114(279)</p> <p>297(164) 94(117) 93(65)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>168(66) 78(82) 39(108) 80(106) 512(424) 0(0)</p> <p>39(113) 101(672) 9(5)</p> <p>21(6) 72(111) 0(0)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 7-2 (20F3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Future Intersection</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Future Intersection</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>Future Intersection</p> <p>63(108) → 699(1055) →</p> <p>← 56(74) ← 52(33)</p> <p>← 42(0) ← 991(849)</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Future Intersection</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>Future Intersection</p> <p>← 700(803) ← 879(1469)</p> <p>← 687(414) ← 0(0)</p> <p>← 336(380)</p> <p>→ 349(291) → 438(1089)</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>Future Intersection</p> <p>← 778(1254) ← 437(594)</p> <p>→ 780(513) → 1(0) → 280(443)</p> <p>→ 1007(867) → 456(413)</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>Future Intersection</p> <p>← 130(208) ← 763(1036) ← 112(212)</p> <p>← 226(152) ← 237(194) ← 26(26)</p> <p>→ 223(184) → 238(358) → 73(101)</p> <p>→ 80(103) → 990(814) → 23(33)</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>Future Intersection</p> <p>← 210(216) ← 514(754) ← 119(190)</p> <p>← 145(158) ← 936(675) ← 132(174)</p> <p>→ 184(204) → 476(793) → 58(61)</p> <p>→ 62(59) → 746(584) → 145(175)</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>Future Intersection</p> <p>← 42(38) ← 576(844) ← 102(107)</p> <p>← 78(83) ← 121(81) ← 26(25)</p> <p>→ 91(95) → 177(288) → 85(78)</p> <p>→ 111(115) → 773(678) → 39(42)</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>Future Intersection</p> <p>← 69(84) ← 468(716) ← 100(112)</p> <p>← 108(69) ← 534(61) ← 219(22)</p> <p>→ 274(133) → 1100(178) → 343(166)</p> <p>→ 155(57) → 537(693) → 91(88)</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>Future Intersection</p> <p>← 84(116) ← 436(442) ← 117(366)</p> <p>← 128(165) ← 1596(1274) ← 302(179)</p> <p>→ 280(155) → 061(1503) → 56(17)</p> <p>→ 53(26) → 447(524) → 42(383)</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>Future Intersection</p> <p>← 0(117) ← 553(385) ← 355(123)</p> <p>← 150(295) ← 138(280) ← 0(0)</p> <p>→ 22(72) → 108(111) → 16(85)</p> <p>→ 76(40) → 401(705) → 0(0)</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Future Intersection</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Future Intersection</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Future Intersection</p> <p>← 120(262) ← 410(254)</p> <p>← 415(438) ← 797(660)</p> <p>→ 203(256) → 661(909)</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>Future Intersection</p> <p>← 45(69) ← 38(294) ← 59(173)</p> <p>← 285(65) ← 1370(1418) ← 293(207)</p> <p>→ 63(95) → 925(2034) → 96(51)</p> <p>→ 105(91) → 246(59) → 125(203)</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>Future Intersection</p> <p>← 978(820) ← 148(107)</p> <p>→ 736(982) → 171(129)</p> <p>→ 150(111) → 121(157)</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>Future Intersection</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>Future Intersection</p> <p>← 1185(871) ← 36(14)</p> <p>→ 793(1159) → 38(54)</p> <p>→ 14(38) → 85(25)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 7-2 (30F3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>30(25) ↓, 26(24) ↓, 61(64) ↓, 43(87) ↑, 2559(1895) ↑, 142(155) ↓</p> <p>19(40) ↓, 400(2756) ↓, 73(74) ↓, 54(108) ↑, 19(46) ↑, 119(245) ↑</p>	<p><b>52</b> Vineyard Av./Hellman Av. &amp; Merrill Av.</p> <p>389(579) ↓, 150(68) ↓</p> <p>237(994) ↓, 105(22) ↓, 0(83) ↓, 12(82) ↓</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>25(148) ↓, 51(96) ↓, 26(67) ↓, 69(43) ↑, 825(809) ↑, 331(483) ↓</p> <p>55(30) ↓, 601(967) ↓, 376(258) ↓, 163(326) ↑, 270(105) ↑, 298(430) ↑</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>73(85) ↓, 0(7) ↓, 180(140) ↓, 118(32) ↑, 1276(814) ↑, 253(36) ↓</p> <p>45(67) ↓, 787(1352) ↓, 37(80) ↓, 78(79) ↑, 0(6) ↑, 153(143) ↑</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>55(40) ↓, 84(24) ↓, 43(58) ↓, 48(67) ↑, 2570(1892) ↑, 175(100) ↓</p> <p>33(67) ↓, 364(2791) ↓, 211(96) ↓, 61(205) ↑, 10(89) ↑, 49(256) ↑</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>237(549) ↓, 679(1772) ↓, 595(319) ↑, 4(6) ↓, 681(572) ↓</p> <p>804(509) ↓, 1620(726) ↓</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>1117(1877) ↓, 246(466) ↓</p> <p>475(134) ↓, 4(0) ↓, 624(687) ↓, 950(1101) ↑, 788(830) ↑</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>316(338) ↓, 847(1459) ↓, 162(344) ↓, 209(140) ↑, 571(538) ↑, 172(200) ↓</p> <p>301(284) ↓, 407(755) ↓, 375(518) ↓, 409(394) ↑, 1745(967) ↑, 114(82) ↓</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>30(17) ↓, 1104(1984) ↓, 184(175) ↓, 300(168) ↑, 5(0) ↓, 92(83) ↓</p> <p>164(25) ↓, 6(2) ↓, 41(16) ↓, 145(57) ↑, 1895(1242) ↑, 65(105) ↓</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>191(29) ↓, 919(1412) ↓, 22(322) ↓, 339(64) ↑, 140(10) ↓, 42(23) ↓</p> <p>10(351) ↓, 10(268) ↓, 10(126) ↓, 69(10) ↑, 1541(1145) ↑, 10(73) ↓</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./Ontario Ranch Rd.</p> <p>249(422) ↓, 672(1061) ↓, 79(278) ↓, 299(157) ↑, 1772(1353) ↑, 623(423) ↓</p> <p>448(376) ↓, 871(1937) ↓, 398(614) ↓, 538(433) ↓, 1277(886) ↓, 523(547) ↓</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>169(102) ↓, 1342(1648) ↓, 60(184) ↓, 162(73) ↑, 268(72) ↓, 122(107) ↓</p> <p>47(207) ↓, 28(361) ↓, 36(305) ↓, 237(89) ↓, 2014(1540) ↓, 84(160) ↓</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>617(332) ↓, 912(1511) ↓, 48(88) ↓, 158(67) ↑, 91(63) ↓, 139(129) ↓</p> <p>351(648) ↓, 27(95) ↓, 230(752) ↓, 716(309) ↓, 515(1057) ↓, 88(193) ↓</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>193(282) ↓, 779(1483) ↓, 412(658) ↓, 664(695) ↑, 771(724) ↓, 366(470) ↓</p> <p>215(212) ↓, 557(727) ↓, 113(127) ↓, 149(131) ↓, 122(1176) ↓, 372(484) ↓</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>205(125) ↓, 19(10) ↓, 96(126) ↓, 93(142) ↑, 2215(1698) ↑, 52(39) ↓</p> <p>97(191) ↓, 041(2369) ↓, 41(48) ↓, 70(32) ↓, 30(10) ↓, 45(48) ↓</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>89(51) ↓, 129(53) ↓, 142(66) ↓, 59(126) ↑, 1615(1737) ↑, 163(241) ↓</p> <p>48(109) ↓, 257(1905) ↓, 55(173) ↓, 172(88) ↓, 122(56) ↓, 242(179) ↓</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>244(259) ↓, 124(320) ↓, 319(283) ↓, 114(349) ↑, 1882(1507) ↑, 26(75) ↓</p> <p>234(339) ↓, 193(1961) ↓, 44(81) ↓, 76(79) ↓, 232(242) ↓, 96(47) ↓</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>334(416) ↓, 219(510) ↓, 111(134) ↓, 37(52) ↑, 1374(1573) ↑, 125(246) ↓</p> <p>339(321) ↓, 069(1505) ↓, 49(109) ↓, 204(79) ↓, 437(247) ↓, 127(161) ↓</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>91(94) ↓, 220(152) ↓, 58(33) ↓, 29(64) ↑, 1271(1469) ↑, 47(142) ↓</p> <p>48(86) ↓, 130(1321) ↓, 75(211) ↓, 116(183) ↓, 201(108) ↓, 114(145) ↓</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./Cantu-Galleano Ranch Rd.</p> <p>216(228) ↓, 467(1050) ↓, 275(569) ↓, 246(167) ↑, 1472(1167) ↑, 388(940) ↓</p> <p>126(180) ↓, 097(1542) ↓, 195(537) ↓, 334(391) ↓, 856(475) ↓, 692(294) ↓</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>158(253) ↓, 427(720) ↓, 384(490) ↓, 338(432) ↑, 959(1065) ↑, 239(424) ↓</p> <p>198(331) ↓, 948(1032) ↓, 95(143) ↓, 184(228) ↓, 795(666) ↓, 297(370) ↓</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>1338(1308) ↓, 392(522) ↓, 221(528) ↑, 736(904) ↓</p> <p>1441(1825) ↓, 522(632) ↓</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>482(507) ↓, 0(1) ↓, 547(511) ↓, 1564(1790) ↓, 0(0) ↓</p> <p>1823(1819) ↓, 717(772) ↓</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>626(1028) ↑, 445(368) ↓</p> <p>662(898) ↓, 171(1450) ↓, 331(404) ↓, 365(289) ↓</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>450(455) ↑, 1897(2020) ↑</p> <p>1527(1770) ↓, 843(560) ↓, 618(608) ↓, 0(2) ↓, 565(901) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



### 7.3 HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the SBTAM/RivTAM, plus the traffic generated by the proposed Project. Horizon Year (2040) With Project traffic forecasts assumes buildout of the Project. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Horizon Year (2040) With Project traffic conditions are shown on Exhibits 7-3 and 7-4, respectively.

### 7.4 INTERSECTION OPERATIONS ANALYSIS

#### 7.4.1 HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Horizon Year (2040) Without Project conditions with roadway and intersection geometrics consistent with Section 7.1 *Roadway Improvements*. As shown on Table 7-1, the following additional study area intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- SR-71 Southbound Ramps & Grand Avenue (#1) – LOS E PM peak hour only
- SR-71 Southbound Ramps & Butterfield Ranch Road (#2) – LOS E AM and PM peak hours
- SR-71 Northbound Ramps & Edison Avenue (#3) – LOS F AM peak hour only
- Central Avenue & Edison Avenue (#7) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#10) – LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#14) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Schaefer Avenue (#15) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#17) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Bickmore Avenue (#20) – LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F AM and PM peak hours
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Eucalyptus Avenue (#25) – LOS F PM peak hour only
- Bon View Avenue & Merrill Avenue (#28) – LOS F AM and PM peak hours
- Grove Avenue & SR-60 Westbound Ramps (#36) – LOS E AM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS F AM and PM peak hours
- Grove Avenue & Riverside Drive (#39) – LOS F AM and PM peak hours
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours

- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F AM and PM peak hours
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50) – LOS F PM peak hour only
- Vineyard Avenue & Edison Avenue (#51) – LOS F PM peak hour only
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52) – LOS F AM and PM peak hours
- Hellman Avenue & Kimball Avenue (#53) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Hellman Avenue & Edison Avenue (#55) – LOS F PM peak hour only
- Archibald Avenue & Riverside Drive (#58) – LOS F AM and PM peak hours
- Archibald Avenue & Schaefer Avenue (#60) – LOS F PM peak hour only
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM and PM peak hours
- Archibald Avenue & Eucalyptus Avenue (#62) – LOS F AM and PM peak hours
- Archibald Avenue & Merrill Avenue (#63) – LOS F AM and PM peak hours
- Archibald Avenue & Limonite Avenue (#64) – LOS F AM and PM peak hours
- Turner Avenue & Ontario Ranch Road (#65) – LOS F AM and PM peak hours
- Haven Avenue & Ontario Ranch Road (#67) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F AM and PM peak hours

A summary of the peak hour intersection LOS for Horizon Year (2040) Without Project conditions is shown on Exhibit 7-5. The intersection operations analysis worksheets for Horizon Year (2040) Without Project traffic conditions are included in Appendix 7.1 of this TA.

**7.4.2 HORIZON YEAR (2040) WITH PROJECT TRAFFIC CONDITIONS**

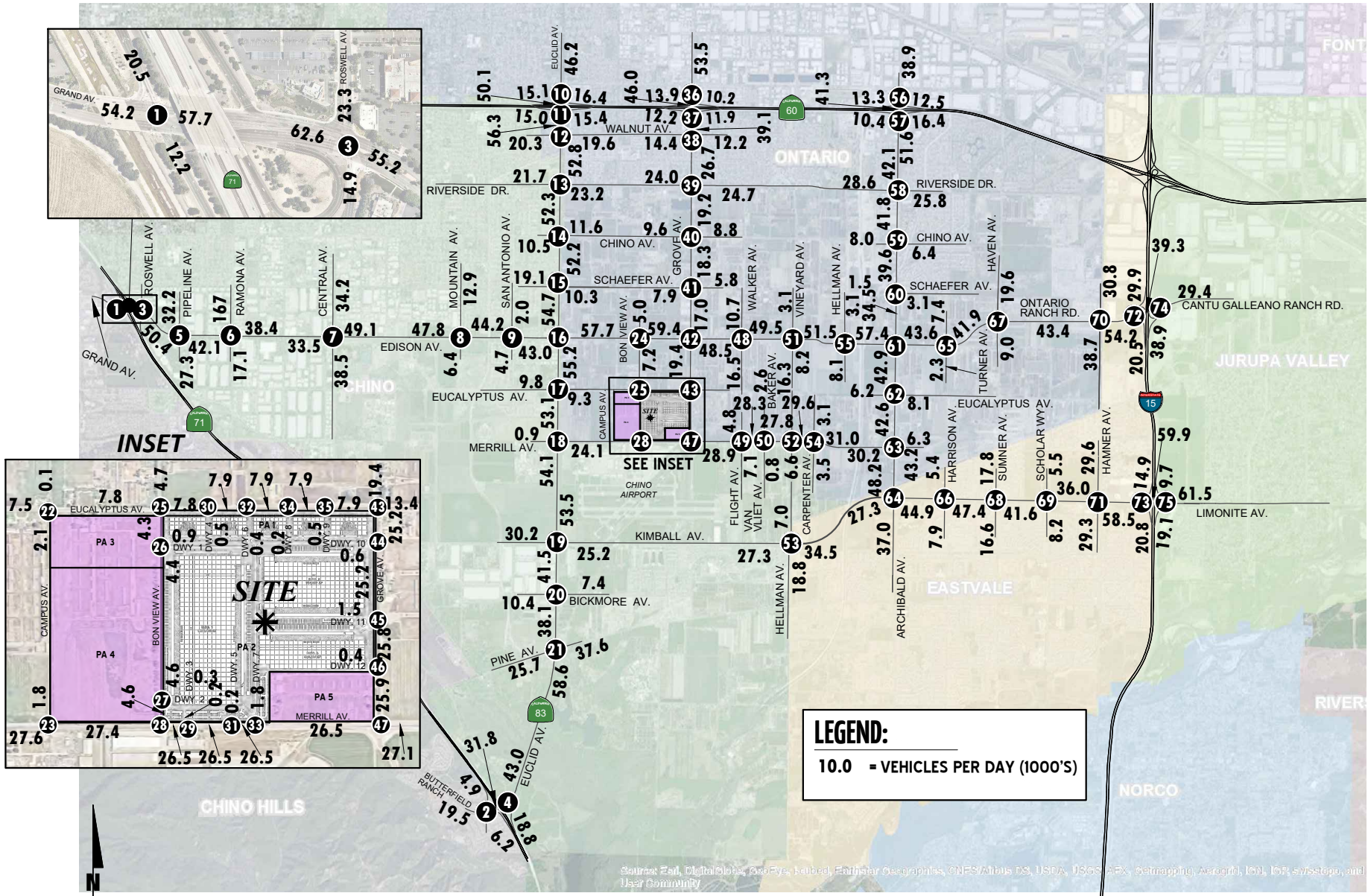
As shown on Table 7-1 and illustrated on Exhibit 7-6, the following study area intersection is anticipated to operate at a deficient LOS during one or both peak hours for Horizon Year (2040) With Project traffic conditions with the addition of Project traffic, in addition to the locations identified above for Horizon Year (2040) Without Project traffic conditions.

- Campus Avenue & Eucalyptus Avenue (#22) – LOS F PM peak hour only
- Campus Avenue & Merrill Avenue (#23) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for Horizon Year (2040) With Project traffic conditions are included in Appendix 7.2 of this TA.



EXHIBIT 7-3: HORIZON YEAR (2040) WITH PROJECT AVERAGE DAILY TRAFFIC (ADT)



**EXHIBIT 7-4 (10F3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES**

<p><b>1</b> SR-71 SB Ramps &amp; Grand Av.</p> <p>370(531) 5(1) 1176(1091) 1666(1610) 206(337)</p> <p>1171(1804) 241(630)</p>	<p><b>2</b> SR-71 SB Ramps &amp; Butterfield Ranch Rd./ Euclid Av. (SR-83)</p> <p>14(37) 30(75) 669(1040) 414(326) 234(170)</p> <p>838(1001) 36(67)</p> <p>21(20) 330(169)</p>	<p><b>3</b> Roswell Av./ SR-71 NB Ramps &amp; Grand Av.</p> <p>809(908) 117(185) 211(426) 1513(1992)</p> <p>632(449) 1506(1987) 209(459)</p> <p>564(431) 84(156) 78(244)</p>	<p><b>4</b> SR-71 NB Ramps &amp; Euclid Av. (SR-83)</p> <p>1720(1769) 401(54)</p> <p>545(1039) 49(6)</p> <p>156(181) 694(1345)</p>	<p><b>5</b> Pipeline Av. &amp; Edison Av.</p> <p>153(282) 470(693) 107(178) 62(103) 1043(1343) 180(265)</p> <p>200(389) 1225(1309) 171(271)</p> <p>171(353) 264(538) 118(194)</p>
<p><b>6</b> Ramona Av. &amp; Edison Av.</p> <p>103(115) 505(454) 57(71) 78(75) 1223(1399) 139(188)</p> <p>110(128) 251(1503) 74(128)</p> <p>49(104) 343(491) 144(162)</p>	<p><b>7</b> Central Av. &amp; Edison Av.</p> <p>286(156) 1080(921) 125(137) 141(133) 1345(1166) 425(378)</p> <p>169(250) 997(1316) 65(117)</p> <p>87(128) 901(1149) 465(598)</p>	<p><b>8</b> Mountain Av. &amp; Edison Av.</p> <p>302(246) 90(195) 146(134) 130(126) 1436(1409) 11(49)</p> <p>209(236) 211(1767) 47(93)</p> <p>96(43) 176(106) 49(36)</p>	<p><b>9</b> San Antonio Av. &amp; Riverside Dr.</p> <p>107(57) 53(52) 33(14) 24(20) 1286(1543) 6(15)</p> <p>53(97) 414(1742) 32(64)</p> <p>87(31) 97(35) 69(15)</p>	<p><b>10</b> Euclid Av. (SR-83) &amp; SR-60 WB Ramps</p> <p>593(598) 1240(1260) 516(495) 7(8) 837(779)</p> <p>571(695) 1194(1353)</p>
<p><b>11</b> Euclid Av. (SR-83) &amp; SR-60 EB Ramps</p> <p>1618(1582) 459(458)</p> <p>520(505) 3(4) 749(566)</p> <p>1242(1541) 867(793)</p>	<p><b>12</b> Euclid Av. (SR-83) &amp; Walnut Av.</p> <p>123(265) 1942(1595) 189(320) 258(170) 388(449) 91(85)</p> <p>252(179) 365(449) 159(181)</p> <p>165(251) 1626(2005) 58(90)</p>	<p><b>13</b> Euclid Av. (SR-83) &amp; Riverside Dr.</p> <p>192(345) 1727(1373) 223(173) 147(80) 623(506) 241(229)</p> <p>193(234) 464(732) 154(208)</p> <p>163(230) 1361(1799) 201(295)</p>	<p><b>14</b> Euclid Av. (SR-83) &amp; Chino Av.</p> <p>116(87) 1885(1557) 74(39) 82(20) 292(230) 105(137)</p> <p>131(134) 254(498) 71(72)</p> <p>70(79) 1466(2122) 180(278)</p>	<p><b>15</b> Euclid Av. (SR-83) &amp; Schaefer Av.</p> <p>457(455) 1792(1588) 43(203) 188(75) 377(158) 177(95)</p> <p>193(487) 92(463) 106(267)</p> <p>232(250) 1428(2060) 44(100)</p>
<p><b>16</b> Euclid Av. (SR-83) &amp; Edison Av.</p> <p>211(220) 1520(1638) 343(221) 351(404) 1170(835) 254(472)</p> <p>196(334) 1092(1266) 189(387)</p> <p>289(253) 1315(1856) 221(350)</p>	<p><b>17</b> Euclid Av. (SR-83) &amp; Eucalyptus Av.</p> <p>53(80) 1673(1848) 182(286) 206(314) 197(168) 385(413)</p> <p>88(51) 50(205) 205(266)</p> <p>221(148) 1609(1876) 133(383)</p>	<p><b>18</b> Euclid Av. (SR-83) &amp; E. Facility Dr./ Merrill Av.</p> <p>49(1) 1806(2122) 408(404) 469(460) 60(3) 425(754)</p> <p>10(14) 10(37) 21(15)</p> <p>13(5) 1493(1903) 565(851)</p>	<p><b>19</b> Euclid Av. (SR-83) &amp; Kimball Av.</p> <p>495(439) 1341(1563) 280(541) 418(293) 941(435) 226(105)</p> <p>236(609) 322(975) 109(206)</p> <p>178(147) 1399(1430) 68(159)</p>	<p><b>20</b> Euclid Av. (SR-83) &amp; Bickmore Av.</p> <p>250(204) 1328(1607) 107(187) 215(166) 264(37) 241(70)</p> <p>88(226) 16(143) 47(138)</p> <p>92(55) 255(1476) 40(126)</p>
<p><b>21</b> Euclid Av. (SR-83) &amp; Pine Av.</p> <p>132(124) 1093(1340) 163(391) 341(247) 980(611) 829(482)</p> <p>88(119) 303(911) 204(224)</p> <p>171(278) 1033(1160) 214(891)</p>	<p><b>22</b> Campus Av. &amp; Eucalyptus Av.</p> <p>0(0) 7(2) 0(0) 0(0) 720(524) 101(39)</p> <p>0(0) 183(781) 47(18)</p> <p>13(53) 2(8) 21(83)</p>	<p><b>23</b> Campus Av. &amp; Merrill Av.</p> <p>15(60) 14(55) 31(11) 1065(1036)</p> <p>58(20) 879(1230)</p>	<p><b>24</b> Bon View Av. &amp; Edison Av.</p> <p>55(58) 141(106) 23(21) 20(9) 2391(2443) 51(95)</p> <p>61(86) 2012(2548) 114(279)</p> <p>287(164) 98(133) 93(65)</p>	<p><b>25</b> Bon View Av. &amp; Eucalyptus Av.</p> <p>168(66) 85(84) 46(110) 84(122) 663(487) 115(64)</p> <p>39(113) 163(777) 9(6)</p> <p>22(6) 72(111) 53(167)</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 7-4 (2OF3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES**

<p><b>26</b> Bon View Av. &amp; Dwy. 1</p> <p>Approach: 155(135) ↓, 54(20) ↓, 13(54) ↑, 2(10) ↑                  Departure: 134(231) ↑, 9(3) ↑</p>	<p><b>27</b> Bon View Av. &amp; Dwy. 2</p> <p>Approach: 121(146) ↓, 6(23) ↑                  Departure: 139(177) ↑, 23(8) ↑</p>	<p><b>28</b> Bon View Av. &amp; Merrill Av.</p> <p>Approach: 67(120) ↓, 69(103) ↓, 145(110) ↑, 1069(924) ↑                  Departure: 89(117) ↑, 792(1215) ↓</p>	<p><b>29</b> Dwy. 3 &amp; Merrill Av.</p> <p>Approach: 2(9) ↓, 2(7) ↓, 6(2) ↑, 1212(1025) ↑                  Departure: 7(2) ↑, 855(1315) ↓</p>	<p><b>30</b> Dwy. 4 &amp; Eucalyptus Av.</p> <p>Approach: 858(656) ↓, 23(8) ↓                  Departure: 254(1052) ↑, 8(3) ↑, 4(16) ↓, 4(16) ↓</p>
<p><b>31</b> Dwy. 5 &amp; Merrill Av.</p> <p>Approach: 2(7) ↓, 2(7) ↓, 6(2) ↑, 1216(1020) ↑                  Departure: 7(2) ↑, 850(1320) ↓</p>	<p><b>32</b> Dwy. 6 &amp; Eucalyptus Av.</p> <p>Approach: 879(656) ↓, 14(5) ↓                  Departure: 250(1065) ↑, 8(3) ↑, 2(9) ↓, 4(16) ↓</p>	<p><b>33</b> Dwy. 7 &amp; Merrill Av.</p> <p>Approach: 8(33) ↓, 22(88) ↓, 99(36) ↑, 694(989) ↑                  Departure: 19(7) ↑, 297(1320) ↓</p>	<p><b>34</b> Dwy. 8 &amp; Eucalyptus Av.</p> <p>Approach: 891(651) ↓, 8(3) ↓                  Departure: 245(1078) ↑, 9(3) ↑, 2(9) ↓, 2(8) ↓</p>	<p><b>35</b> Dwy. 9 &amp; Eucalyptus Av.</p> <p>Approach: 896(645) ↓, 22(8) ↓                  Departure: 239(1083) ↑, 8(3) ↑, 2(9) ↓, 6(23) ↓</p>
<p><b>36</b> Grove Av. &amp; SR-60 WB Ramps</p> <p>Approach: 700(803) ↓, 919(1483) ↓, 687(414) ↑, 0(0) ↑, 390(400) ↓                  Departure: 363(351) ↑, 1448(1135) ↑</p>	<p><b>37</b> Grove Av. &amp; SR-60 EB Ramps</p> <p>Approach: 872(1288) ↓, 437(594) ↓                  Departure: 780(513) ↑, 1(0) ↑, 334(463) ↓, 1033(973) ↑, 470(473) ↓</p>	<p><b>38</b> Grove Av. &amp; Walnut Av.</p> <p>Approach: 130(208) ↓, 911(1090) ↓, 112(212) ↓, 226(152) ↑, 237(194) ↑, 26(26) ↓                  Departure: 223(184) ↑, 238(358) ↑, 73(101) ↓, 80(103) ↑, 1030(980) ↑, 23(33) ↓</p>	<p><b>39</b> Grove Av. &amp; Riverside Dr.</p> <p>Approach: 210(216) ↓, 662(808) ↓, 119(190) ↓, 145(158) ↑, 936(675) ↑, 132(174) ↓                  Departure: 184(204) ↑, 476(793) ↑, 58(61) ↓, 62(59) ↓, 786(750) ↑, 145(175) ↓</p>	<p><b>40</b> Grove Av. &amp; Chino Av.</p> <p>Approach: 42(38) ↓, 724(898) ↓, 102(107) ↓, 78(83) ↑, 121(81) ↑, 26(25) ↓                  Departure: 91(95) ↑, 177(288) ↑, 85(78) ↓, 111(115) ↑, 813(844) ↑, 39(42) ↓</p>
<p><b>41</b> Grove Av. &amp; Schaefer Av.</p> <p>Approach: 69(84) ↓, 616(770) ↓, 100(112) ↓, 108(69) ↑, 534(61) ↑, 219(22) ↓                  Departure: 274(133) ↑, 1100(178) ↑, 343(166) ↓, 155(57) ↓, 577(859) ↑, 91(88) ↓</p>	<p><b>42</b> Grove Av. &amp; Edison Av.</p> <p>Approach: 84(116) ↓, 584(496) ↓, 117(366) ↓, 128(165) ↑, 1596(1274) ↑, 302(179) ↓                  Departure: 280(155) ↑, 061(1503) ↑, 338(121) ↓, 129(342) ↑, 487(690) ↑, 42(383) ↓</p>	<p><b>43</b> Grove Av. &amp; Eucalyptus Av.</p> <p>Approach: 309(238) ↓, 659(424) ↓, 355(123) ↓, 150(295) ↑, 253(322) ↑, 171(75) ↓                  Departure: 84(327) ↑, 174(383) ↑, 18(91) ↓, 82(42) ↓, 455(930) ↑, 46(107) ↓</p>	<p><b>44</b> Grove Av. &amp; Dwy. 10</p> <p>Approach: 25(9) ↓, 822(581) ↓                  Departure: 10(41) ↑, 11(4) ↓, 583(1079) ↑</p>	<p><b>45</b> Grove Av. &amp; Dwy. 11</p> <p>Approach: 52(19) ↓, 781(602) ↓                  Departure: 14(60) ↑, 10(38) ↓, 38(13) ↓, 580(1023) ↑</p>
<p><b>46</b> Grove Av. &amp; Dwy. 12</p> <p>Approach: 19(7) ↓, 772(633) ↓                  Departure: 8(33) ↓, 617(1036) ↑</p>	<p><b>47</b> Grove Av. &amp; Merrill Av.</p> <p>Approach: 261(325) ↓, 473(513) ↓, 484(462) ↑, 1092(767) ↑                  Departure: 282(556) ↑, 696(1047) ↓</p>	<p><b>48</b> Walker Av. &amp; Edison Av.</p> <p>Approach: 45(69) ↓, 52(298) ↓, 59(173) ↓, 285(65) ↑, 1370(1418) ↑, 441(261) ↓                  Departure: 63(95) ↑, 925(2034) ↑, 96(51) ↓, 105(91) ↓, 250(75) ↑, 165(369) ↓</p>	<p><b>49</b> Walker Av./ Flight Av. &amp; Merrill Av.</p> <p>Approach: 1315(941) ↓, 148(107) ↓                  Departure: 826(1349) ↑, 179(159) ↓, 176(121) ↓, 121(157) ↓</p>	<p><b>50</b> Baker Av./ Van Vliet Av. &amp; Merrill Av.</p> <p>Approach: 1522(992) ↓, 36(14) ↓                  Departure: 883(1526) ↑, 38(54) ↓, 14(38) ↓, 85(25) ↓</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 7-4 (30F3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES**

<p><b>51</b> Vineyard Av. &amp; Edison Av.</p> <p>30(25) ↓, 33(26) ↓, 61(64) ↓, 43(87) ↑, 2633(1922) ↓, 243(192) ↓</p> <p>19(40) ↓, 420(2839) ↓, 73(74) ↓</p> <p>54(108) ↑, 21(54) ↑, 146(358) ↑</p>	<p><b>52</b> Vineyard Av./ Hellman Av. &amp; Merrill Av.</p> <p>524(626) ↓, 150(68) ↓</p> <p>273(1136) ↓, 121(90) ↓</p> <p>61(105) ↑, 12(82) ↑</p>	<p><b>53</b> Hellman Av. &amp; Kimball Av.</p> <p>25(148) ↓, 55(111) ↓, 39(120) ↓, 116(60) ↑, 825(809) ↓, 331(483) ↓</p> <p>55(30) ↓, 601(967) ↓, 376(258) ↓</p> <p>163(326) ↑, 283(110) ↑, 298(430) ↑</p>	<p><b>54</b> Carpenter Av. &amp; Merrill Av.</p> <p>73(85) ↓, 0(7) ↓, 180(140) ↓, 118(32) ↑, 1411(861) ↓, 253(36) ↓</p> <p>45(67) ↓, 823(1494) ↓, 37(80) ↓</p> <p>78(79) ↑, 0(6) ↑, 153(143) ↑</p>	<p><b>55</b> Hellman Av. &amp; Edison Av.</p> <p>62(42) ↓, 84(24) ↓, 43(58) ↓, 48(67) ↑, 2738(1954) ↓, 175(100) ↓</p> <p>35(75) ↓, 409(2979) ↓, 211(96) ↓</p> <p>61(205) ↑, 10(89) ↑, 49(256) ↑</p>
<p><b>56</b> Archibald Av. &amp; SR-60 WB Ramps</p> <p>237(549) ↓, 686(1774) ↓, 595(319) ↑, 4(6) ↓, 730(589) ↓</p> <p>804(509) ↓, 1622(734) ↓</p>	<p><b>57</b> Archibald Av. &amp; SR-60 EB Ramps</p> <p>1172(1896) ↓, 246(466) ↓</p> <p>475(134) ↓, 4(0) ↓, 624(687) ↓</p> <p>952(1109) ↑, 801(881) ↑</p>	<p><b>58</b> Archibald Av. &amp; Riverside Dr.</p> <p>316(338) ↓, 902(1478) ↓, 162(344) ↓, 209(140) ↑, 571(538) ↓, 185(205) ↓</p> <p>301(284) ↓, 407(755) ↓, 375(518) ↓</p> <p>409(394) ↑, 760(1025) ↑, 118(97) ↑</p>	<p><b>59</b> Archibald Av. &amp; Chino Av.</p> <p>30(17) ↓, 1173(2008) ↓, 184(175) ↓, 300(168) ↑, 5(0) ↓, 99(85) ↓</p> <p>164(25) ↓, 6(2) ↓, 41(16) ↓</p> <p>145(57) ↑, 1913(1315) ↑, 67(113) ↑</p>	<p><b>60</b> Archibald Av. &amp; Schaefer Av.</p> <p>191(29) ↓, 995(1439) ↓, 22(322) ↓, 339(64) ↑, 140(10) ↑, 42(23) ↓</p> <p>10(351) ↓, 10(268) ↓, 10(126) ↓</p> <p>69(10) ↑, 1561(1226) ↑, 10(73) ↑</p>
<p><b>61</b> Archibald Av. &amp; Edison Av./ Ontario Ranch Rd.</p> <p>296(439) ↓, 701(1070) ↓, 79(278) ↓, 299(157) ↑, 1893(1398) ↓, 645(430) ↓</p> <p>461(429) ↓, 904(2072) ↓, 398(614) ↓</p> <p>538(433) ↑, 1284(914) ↑, 529(568) ↑</p>	<p><b>62</b> Archibald Av. &amp; Eucalyptus Av.</p> <p>169(102) ↓, 1392(1664) ↓, 60(184) ↓, 162(73) ↑, 275(74) ↓, 122(107) ↓</p> <p>47(207) ↓, 30(369) ↓, 36(305) ↓</p> <p>237(89) ↑, 2027(1589) ↑, 84(160) ↑</p>	<p><b>63</b> Archibald Av. &amp; Merrill Av.</p> <p>667(348) ↓, 912(1511) ↓, 48(88) ↓, 158(67) ↑, 98(65) ↓, 139(129) ↓</p> <p>364(697) ↓, 29(103) ↓, 247(822) ↓</p> <p>781(332) ↑, 515(1057) ↑, 88(193) ↑</p>	<p><b>64</b> Archibald Av. &amp; Limonite Av.</p> <p>193(282) ↓, 784(1506) ↓, 424(706) ↓, 709(711) ↑, 818(741) ↓, 366(470) ↓</p> <p>215(212) ↓, 570(780) ↓, 113(127) ↓</p> <p>149(131) ↑, 142(1183) ↑, 372(484) ↑</p>	<p><b>65</b> Turner Av. &amp; Ontario Ranch Rd.</p> <p>212(127) ↓, 19(10) ↓, 96(126) ↓, 93(142) ↑, 2351(1747) ↓, 52(39) ↓</p> <p>99(199) ↓, 077(2517) ↓, 41(48) ↓</p> <p>70(32) ↑, 30(10) ↑, 45(48) ↑</p>
<p><b>66</b> Harrison Av. &amp; Limonite Av.</p> <p>89(51) ↓, 129(53) ↓, 142(66) ↓, 59(126) ↑, 1707(1770) ↓, 163(241) ↓</p> <p>48(109) ↓, 282(2005) ↓, 55(173) ↓</p> <p>172(88) ↑, 122(56) ↑, 242(179) ↑</p>	<p><b>67</b> Haven Av. &amp; Ontario Ranch Rd.</p> <p>257(264) ↓, 124(320) ↓, 319(283) ↓, 114(349) ↑, 2005(1551) ↓, 26(75) ↓</p> <p>238(354) ↓, 226(2094) ↓, 44(81) ↓</p> <p>76(79) ↑, 232(242) ↑, 96(47) ↑</p>	<p><b>68</b> Sumner Av. &amp; Limonite Av.</p> <p>334(416) ↓, 219(510) ↓, 111(134) ↓, 37(52) ↑, 1459(1604) ↓, 125(246) ↓</p> <p>339(321) ↓, 092(1598) ↓, 51(117) ↓</p> <p>211(81) ↑, 437(247) ↑, 127(161) ↑</p>	<p><b>69</b> Scholar Wy. &amp; Limonite Av.</p> <p>91(94) ↓, 220(152) ↓, 58(33) ↓, 29(64) ↑, 1356(1500) ↓, 47(142) ↓</p> <p>48(86) ↓, 153(1414) ↓, 75(211) ↓</p> <p>116(183) ↑, 201(108) ↑, 114(145) ↑</p>	<p><b>70</b> Hamner Av. &amp; Ontario Ranch Rd./ Cantu-Galleano Ranch Rd.</p> <p>223(230) ↓, 467(1050) ↓, 275(569) ↓, 246(167) ↑, 1588(1209) ↓, 388(940) ↓</p> <p>128(188) ↓, 128(1668) ↓, 195(537) ↓</p> <p>334(391) ↑, 856(475) ↑, 692(294) ↑</p>
<p><b>71</b> Hamner Av. &amp; Limonite Av.</p> <p>158(253) ↓, 427(720) ↓, 384(490) ↓, 338(432) ↑, 1037(1093) ↓, 239(424) ↓</p> <p>198(331) ↓, 969(1117) ↓, 97(151) ↓</p> <p>191(230) ↑, 795(666) ↑, 297(370) ↑</p>	<p><b>72</b> I-15 SB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>1447(1347) ↓, 392(522) ↓, 221(528) ↑, 743(906) ↓</p> <p>1472(1951) ↓, 522(632) ↓</p>	<p><b>73</b> I-15 SB Ramps &amp; Limonite Av.</p> <p>482(507) ↓, 0(1) ↓, 547(511) ↓, 1642(1818) ↓, 0(0) ↓</p> <p>1828(1842) ↓, 732(835) ↓</p>	<p><b>74</b> I-15 NB Ramps &amp; Cantu-Galleano Ranch Rd.</p> <p>633(1030) ↓, 445(368) ↓</p> <p>664(906) ↓, 200(1568) ↓</p> <p>331(404) ↑, 365(289) ↑</p>	<p><b>75</b> I-15 NB Ramps &amp; Limonite Av.</p> <p>450(455) ↓, 1917(2027) ↓</p> <p>1532(1793) ↓, 843(560) ↓</p> <p>676(629) ↑, 0(2) ↑, 565(901) ↑</p>

**LEGEND:**

10(10) = AM(PM) PEAK HOUR INTERSECTION VOLUMES



**EXHIBIT 7-5: HORIZON YEAR (2040) WITHOUT PROJECT SUMMARY OF LOS**

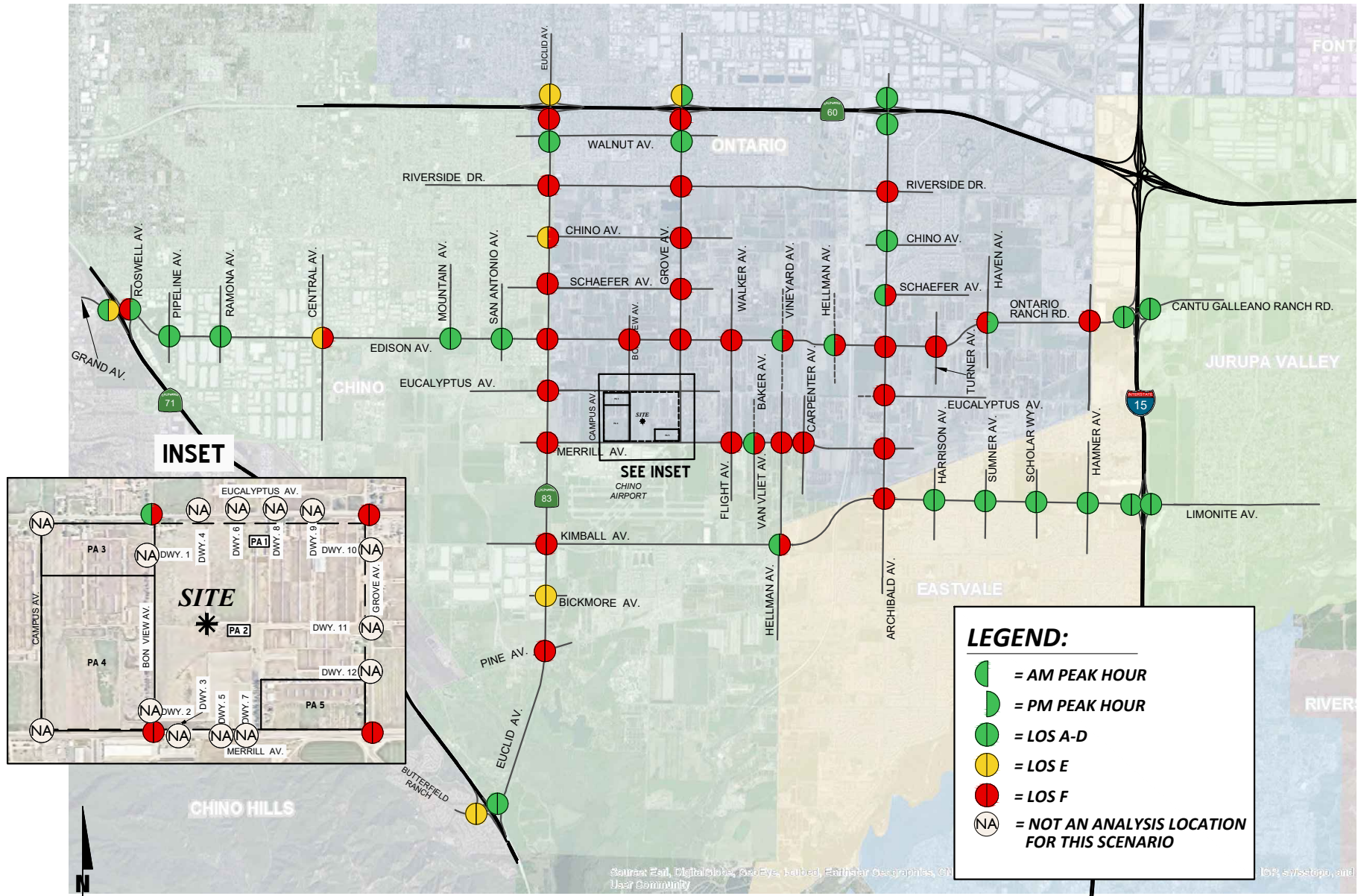
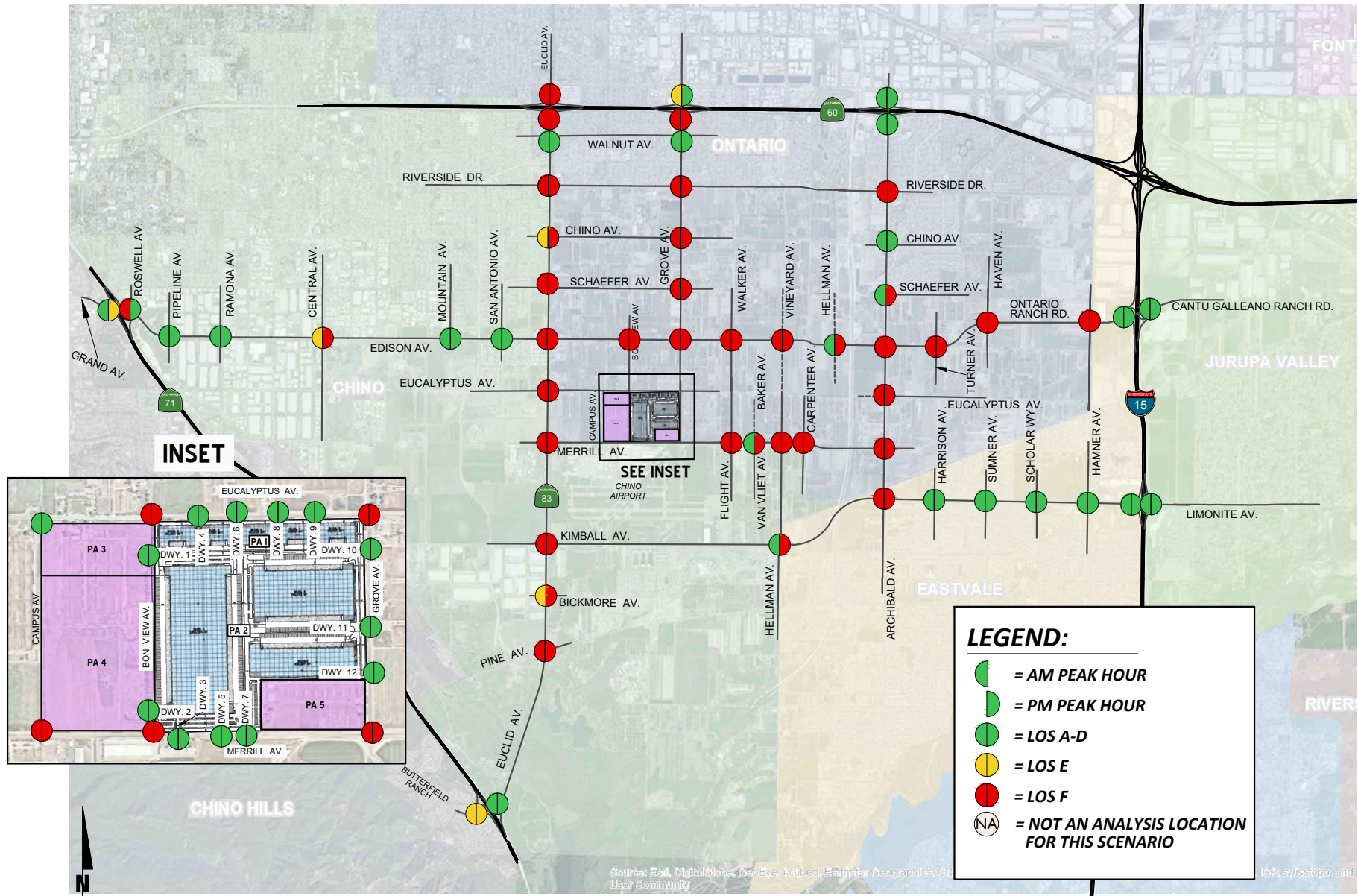


EXHIBIT 7-6: HORIZON YEAR (2040) WITH PROJECT SUMMARY OF LOS



**Table 7-1**  
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**Intersection Analysis for Horizon Year (2040) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	2040 Without Project				2040 With Project				Jurisdiction(s) / LOS Standard <sup>3</sup>
			Delay <sup>1</sup> (secs.)		Level of Service		Delay <sup>1</sup> (secs.)		Level of Service		
			AM	PM	AM	PM	AM	PM	AM	PM	
1	SR-71 SB Ramps & Grand Av.	TS	30.6	79.3	C	E	30.6	79.3	C	E	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	58.9	68.0	E	E	59.8	68.0	E	E	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	80.1	36.9	F	D	84.3	36.9	F	D	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	19.8	15.0	B	B	19.8	16.6	B	B	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	24.9	42.7	C	D	25.0	44.8	C	D	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	34.2	48.3	C	D	34.6	51.4	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	60.8	94.2	E	F	63.7	102.8	E	F	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	34.6	25.8	C	C	36.3	27.1	D	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	15.9	11.5	B	B	16.0	11.8	B	B	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	79.0	75.2	E	E	84.3	100.4	F	F	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	106.9	88.3	F	F	129.1	106.9	F	F	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	59.2	63.2	E	E	69.7	75.2	E	E	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	136.6	>200.0	F	F	156.5	>200.0	F	F	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	62.0	135.5	E	F	78.3	151.7	E	F	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	163.5	176.9	F	F	191.5	>200.0	F	F	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	>200.0	>200.0	F	F	>200.0	>200.0	F	F	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	86.2	162.1	F	F	100.9	172.7	F	F	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	160.1	>200.0	F	F	186.7	>200.0	F	F	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	80.3	172.6	F	F	92.0	188.2	F	F	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	59.3	71.4	E	E	71.0	81.5	E	F	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	>200.0	>200.0	F	F	>200.0	>200.0	F	F	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	CSS	Future Intersection				26.6	57.0	D	F	Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	CSS	Future Intersection				>100.0	>100.0	F	F	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	35.4	>100.0	E	F	>100.0	>100.0	F	F	Ontario / LOS E
26	Bon View Av. & Driveway 1	CSS	Future Intersection				9.8	10.6	A	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	CSS	Future Intersection				9.3	9.4	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	CSS	Future Intersection				21.6	19.4	C	C	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	CSS	Future Intersection				12.6	31.0	B	D	Ontario / LOS E
31	Driveway 5 & Merrill Av.	CSS	Future Intersection				21.7	20.1	C	C	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	CSS	Future Intersection				11.9	25.5	B	D	Ontario / LOS E
33	Driveway 7 & Merrill Av.	TS	Future Intersection				13.5	11.8	B	B	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	CSS	Future Intersection				12.6	30.7	B	D	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	CSS	Future Intersection				11.6	25.6	B	D	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	69.0	36.3	E	D	70.4	42.5	E	D	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	144.3	83.8	F	F	144.9	94.9	F	F	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	36.8	34.0	D	C	37.8	34.8	D	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	160.9	166.1	F	F	171.1	184.8	F	F	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E
44	Grove Av. & Driveway 10	CSS	Future Intersection				11.7	10.8	B	B	Ontario / LOS E
45	Grove Av. & Driveway 11	CSS	Future Intersection				23.6	18.2	C	C	Ontario / LOS E
46	Grove Av. & Driveway 12	CSS	Future Intersection				11.5	11.3	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Ontario / LOS E

**Table 7-1**  
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**Intersection Analysis for Horizon Year (2040) Conditions**

#	Intersection	Traffic Control <sup>2</sup>	2040 Without Project Delay <sup>1</sup> (secs.)		Level of Service		2040 With Project Delay <sup>1</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard <sup>3</sup>
			AM	PM	AM	PM	AM	PM	AM	PM	
49	Walker Av./Flight Av. & Merrill Av.	CSS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	46.0	67.9	E	F	>100.0	>100.0	F	F	Ontario / LOS E
51	Vineyard Av. & Edison Av.	CSS	35.9	>100.0	E	F	38.8	>100.0	E	F	Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	66.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	43.8	146.3	D	F	45.5	150.6	D	F	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	>100.0	>100.0	F	F	>100.0	>100.0	F	F	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.	CSS	41.0	>100.0	E	F	>100.0	>100.0	F	F	Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	22.7	31.6	C	C	28.7	31.8	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	22.1	18.2	C	B	22.2	18.3	C	C	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	98.7	141.4	F	F	104.6	146.8	F	F	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	56.4	58.4	E	E	60.2	62.3	E	E	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	11.7	142.0	B	F	11.8	144.6	B	F	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	>200.0	>200.0	F	F	>200.0	>200.0	F	F	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	92.8	149.5	F	F	100.2	175.0	F	F	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	161.7	>200.0	F	F	>200.0	>200.0	F	F	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	>200.0	>200.0	F	F	>200.0	>200.0	F	F	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	125.2	133.4	F	F	156.3	164.1	F	F	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	30.0	26.2	C	C	30.9	31.3	C	C	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	113.7	69.4	F	E	127.8	83.8	F	F	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	30.6	40.1	C	D	32.9	44.3	C	D	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	22.4	30.9	C	C	23.7	32.5	C	C	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	124.3	>200.0	F	F	137.2	>200.0	F	F	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	42.6	50.9	D	D	44.4	52.4	D	D	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	19.2	22.3	B	C	19.4	47.0	C	D	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	14.3	12.7	B	B	14.3	12.9	B	B	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	36.4	18.0	D	B	36.7	36.3	D	D	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	14.4	14.7	B	B	15.9	14.9	B	B	Jurupa Valley, Caltrans / LOS D

\* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

<sup>1</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>2</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement



## 7.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The following study area intersections are anticipated to meet peak hour or planning level (ADT) volume-based traffic signal warrants for Horizon Year (2040) Without Project traffic conditions (see Appendix 7.3), in addition to those previously warranted under Existing, E+P, and Opening Year Cumulative traffic conditions:

- Campus Avenue & Eucalyptus Avenue (#22)
- Campus Avenue & Merrill Avenue (#23)
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50)
- Vineyard Avenue & Edison Avenue (#51)
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52)
- Hellman Avenue & Edison Avenue (#55)

There are no additional study area intersections anticipated to meet planning level (ADT) volume-based traffic signal warrant for Horizon Year (2040) With Project traffic conditions (see Appendix 7.4), in addition to those previously warranted under Horizon Year (2040) Without Project traffic conditions.

## 7.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Horizon Year (2040) Without and With Project traffic conditions are shown on Table 7-2. As shown on Table 7-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows under Horizon Year (2040) Without and With Project traffic conditions. Worksheets for Horizon Year (2040) Without and With Project traffic conditions off-ramp queuing analysis are provided in Appendices 7.5 and 7.6, respectively.

**Table 7-2**

**Peak Hour Freeway Off-Ramp Queuing Summary for Horizon Year (2040) Conditions**

Intersection	Movement	Available Stacking Distance (Feet)	2040 Without Project				2040 With Project			
			95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>		95th Percentile Queue (Feet) <sup>3</sup>		Acceptable? <sup>1</sup>	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	434	477	Yes	Yes	473	506 <sup>2</sup>	Yes	Yes
	SBL/T	1,235	440	478	Yes	Yes	478	506 <sup>2</sup>	Yes	Yes
	SBR	570	220	433 <sup>2</sup>	Yes	Yes	220	433 <sup>2</sup>	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	232	470 <sup>2</sup>	Yes	Yes	232	470	Yes	Yes
	SBL/T	1,560	233	484 <sup>2</sup>	Yes	Yes	233	484	Yes	Yes
	SBR	255	0	0	Yes	Yes	0	0	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	307	315 <sup>2</sup>	Yes	Yes	307	315 <sup>2</sup>	Yes	Yes
	NBL/T	1,300	312	477 <sup>2</sup>	Yes	Yes	312	477 <sup>2</sup>	Yes	Yes
	NBR	815	13	167	Yes	Yes	13	167	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	70	59	Yes	Yes	70	59	Yes	Yes
	NBR	420	163 <sup>2</sup>	1,215 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	254 <sup>2</sup>	1,258 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	503 <sup>2</sup>	428 <sup>2</sup>	Yes <sup>3</sup>	No	503 <sup>2</sup>	428 <sup>2</sup>	Yes <sup>3</sup>	No
	WBL/T/R	1,430	537 <sup>2</sup>	447 <sup>2</sup>	Yes	Yes	537 <sup>2</sup>	447 <sup>2</sup>	Yes	Yes
	WBR	400	395 <sup>2</sup>	334 <sup>2</sup>	Yes	Yes	395 <sup>2</sup>	334 <sup>2</sup>	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	518 <sup>2</sup>	489 <sup>2</sup>	Yes	Yes	518 <sup>2</sup>	489 <sup>2</sup>	Yes	Yes
	EBT/R	1,270	923 <sup>2</sup>	698 <sup>2</sup>	Yes	Yes	1,083 <sup>2</sup>	749 <sup>2</sup>	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	306	445	Yes	Yes	336	462	Yes	Yes
	WBR	250	868 <sup>2</sup>	426	Yes <sup>3</sup>	Yes <sup>3</sup>	868 <sup>2</sup>	432	Yes <sup>3</sup>	Yes <sup>3</sup>
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	1,101 <sup>2</sup>	719 <sup>2</sup>	Yes	Yes	1,101 <sup>2</sup>	719 <sup>2</sup>	Yes	Yes
	EBR	315	174	551	Yes	Yes <sup>3</sup>	216	569 <sup>2</sup>	Yes	Yes <sup>3</sup>
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	537 <sup>2</sup>	273	Yes	Yes	573 <sup>2</sup>	288	Yes	Yes
	WBL/T/R	1,389	550 <sup>2</sup>	295 <sup>2</sup>	Yes	Yes	594 <sup>2</sup>	325	Yes	Yes
	WBR	250	402 <sup>2</sup>	110	Yes <sup>3</sup>	Yes	448	118	Yes <sup>3</sup>	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	317	96	Yes	Yes	317	96	Yes	Yes
	EBL/T/R	1,268	293	256	Yes	Yes	302	256	Yes	Yes
	EBR	350	251	241	Yes	Yes	251	241	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	134	181	Yes	Yes	195	126	Yes	Yes
	SBL/R	560	502 <sup>2</sup>	442 <sup>2</sup>	Yes	Yes	506 <sup>2</sup>	532 <sup>2</sup>	Yes <sup>3</sup>	Yes
	SBR	460	454 <sup>2</sup>	412 <sup>2</sup>	Yes <sup>3</sup>	Yes	474 <sup>2</sup>	489 <sup>2</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
I-15 SB Ramps & Limonite Avenue	SBL	400	290	265	Yes	Yes	290	265	Yes	Yes
	SBL/T/R	400	290	268	Yes	Yes	290	268	Yes	Yes
	SBR	1,200	227	247	Yes	Yes	232	248	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	155 <sup>2</sup>	159 <sup>2</sup>	Yes	Yes	179 <sup>2</sup>	134 <sup>2</sup>	Yes	Yes
	NBR	440	59	56	Yes	Yes	58	56	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	232	215	Yes	Yes	262	226	Yes	Yes
	NBL/T/R	1,235	234	217	Yes	Yes	263	227	Yes	Yes
	NBR	400	199	349	Yes	Yes	197	348	Yes	Yes

<sup>1</sup> Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

<sup>2</sup> 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

<sup>3</sup> Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

## **7.8 IMPROVEMENTS**

### **7.8.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS**

Improvement strategies have been identified at intersections that have been identified as deficient, in an effort to reduce each location's peak hour delay and improve the associated LOS grade to an acceptable LOS (LOS D/E or better). The effectiveness of the recommended improvement strategies to address Horizon Year (2040) traffic deficiencies are presented on Table 7-3. If not constructed by the Project, the Project Applicant shall contribute to these improvements through payment of City DIF fees or fair share contribution as identified on Table 1-2.

Worksheets for Horizon Year (2040) Without and With Project conditions, with improvements, HCM calculation worksheets are provided in Appendix 7.9 and Appendix 7.10, respectively.

### **7.8.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES**

As shown previously on Table 7-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95<sup>th</sup> percentile traffic flows for Horizon Year (2040) traffic conditions. As such, no improvements have been identified.

**Table 7-3**  
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**Intersection Analysis for Horizon Year (2040) Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM	
			L	T	R	L	T	R	L	T	R	L	T	R					
1	SR-71 SB Ramps & Grand Av. Without Project <sup>4</sup>	TS	0	0	0	1	1	1	0	3	d	2	3	0	34.4	42.1	C	D	Chino Hills, Caltrans / LOS D
	With Project <sup>4</sup>	TS	0	0	0	1	1	1	0	3	d	2	3	0	35.0	42.5	D	D	
2	SR-71 SB Ramps & Butterfield Ranch Rd. Without Project	TS	1	0	1	2	1	1	0	2	0	1	2	1>>	53.0	53.2	D	D	Ontario, Caltrans / LOS D
	With Project	TS	1	0	1	2	1	1	0	2	0	1	2	1>>	53.7	53.2	D	D	
3	SR-71 NB Ramps & Edison Av. Without Project <sup>4</sup>	TS	1	1	1	1	0	2	1	3	1>>	0	4	0	53.5	40.9	D	D	Chino, Caltrans / LOS D
	With Project <sup>4</sup>	TS	1	1	1	1	0	2	1	3	1>>	0	4	0	54.1	40.9	D	D	
7	Central Av. & Edison Av. Without Project	TS	1	2	1>	1	2	1	2	2	1	2	2	1	47.6	53.4	D	D	Chino / LOS D
	With Project	TS	1	2	1>	1	2	1	2	2	1	2	2	1	48.9	54.8	D	D	
10	Euclid Av. (SR-83) & SR-60 WB Ramps Without Project	TS	2	2	0	0	2	1	0	0	0	1	1	1	32.5	31.4	C	C	Ontario, Caltrans / LOS D
	With Project	TS	2	2	0	0	2	1	0	0	0	1	1	1	33.6	35.4	C	D	
11	Euclid Av. (SR-83) & SR-60 EB Ramps Without Project	TS	0	2	1	2	2	0	1	1	1	0	0	0	31.8	20.7	C	C	Ontario, Caltrans / LOS D
	With Project	TS	0	2	1	2	2	0	1	1	1	0	0	0	36.9	22.3	D	C	
13	Euclid Av. (SR-83) & Riverside Dr. Without Project	TS	2	3	1	2	3	1>	1	2	1	1	2	d	42.6	47.7	D	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	2	3	1	2	3	1>	1	2	1	1	2	d	43.4	50.1	D	D	
14	Euclid Av. (SR-83) & Chino Av. Without Project	TS	1	3	1	1	3	1	1	1	1	1	1	0	29.3	35.6	C	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	1	3	1	1	3	1	1	1	1	1	1	0	30.4	39.7	C	D	
15	Euclid Av. (SR-83) & Schaefer Av. Without Project	TS	2	3	1	2	3	1	2	1	1	1	1	0	43.5	46.4	D	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	2	3	1	2	3	1	2	1	1	1	1	0	46.9	54.3	D	D	
16	Euclid Av. (SR-83) & Edison Av. Without Project	TS	2	3	1	2	3	1>	2	3	1	2	2	1>	48.8	50.4	D	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	2	3	1	2	3	1>	2	3	1	2	2	1>	54.2	54.3	D	D	
17	Euclid Av. (SR-83) & Eucalyptus Av. Without Project	TS	1	3	1	1	3	1	1	1	1	2	1	1	21.5	49.3	C	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	1	3	1	1	3	1	1	1	1	2	1	1	22.8	53.9	C	D	
18	Euclid Av. (SR-83) & Merrill Av. Without Project	TS	1	3	1>	2	3	0	1	1	0	2	1	1>	28.4	43.8	C	D	Chino, Ontario, Caltrans / LOS D
	With Project	TS	1	3	1>	2	3	0	1	1	0	2	1	1>	33.9	53.6	C	D	
19	Euclid Av. (SR-83) & Kimball Av. Without Project	TS	1	3	1>	2	3	1>	2	2	1	2	2	1>	38.8	51.7	D	D	Chino, Caltrans / LOS D
	With Project	TS	1	3	1>	2	3	1>	2	2	1	2	2	1>	40.0	52.6	D	D	
20	Euclid Av. (SR-83) & Bickmore Av. Without Project	TS	1	3	0	1	3	1	1	1	1	1	1	0	29.1	31.1	C	C	Chino, Caltrans / LOS D
	With Project	TS	1	3	0	1	3	1	1	1	1	1	1	0	30.1	31.9	C	C	
21	Euclid Av. (SR-83) & Pine Av. Without Project	TS	2	3	1>>	2	3	1	1	2	1	2	2	1	35.3	52.6	D	D	Chino, Caltrans / LOS D
	With Project	TS	2	3	1>>	2	3	1	1	2	1	2	2	1	36.2	54.6	D	D	
22	Campus Av. & Eucalyptus Av. Without Project	TS	1	0	1	0	0	0	0	2	0	1	2	0	8.1	10.9	A	B	Ontario / LOS E
	With Project	TS	1	0	1	0	0	0	0	2	0	1	2	0	9.3	11.3	A	B	
23	Campus Av. & Merrill Av. Without Project	TS	0	0	0	1	0	1	1	2	0	0	2	0	11.2	10.6	B	B	Chino, Ontario / LOS D
	With Project	TS	0	0	0	1	0	1	1	2	0	0	2	0	11.7	10.9	B	B	

**Table 7-3**  
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**Intersection Analysis for Horizon Year (2040) Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM	
			L	T	R	L	T	R	L	T	R	L	T	R					
24	Bon View Av. & Edison Av. Without Project	TS	<u>1</u>	1	0	<u>1</u>	1	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	41.3	32.2	D	C	Ontario / LOS E
	With Project	TS	<u>1</u>	1	0	<u>1</u>	1	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	43.9	34.1	D	D	
25	Bon View Av. & Eucalyptus Av. Without Project	TS	0	1	0	0	1	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	10.7	9.3	B	A	Ontario / LOS E
	With Project	TS	0	1	0	0	1	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	12.6	11.5	B	B	
28	Bon View Av. & Merrill Av. Without Project	TS	0	0	0	0	1	0	<u>1</u>	<u>2</u>	0	0	<u>2</u>	0	10.4	10.4	B	B	Chino, Ontario / LOS D
	With Project	TS	0	0	0	0	1	0	<u>1</u>	<u>2</u>	0	0	<u>2</u>	<u>1</u>	11.0	12.3	B	B	
36	Grove Av. & SR-60 WB Ramps Without Project	TS	<u>2</u>	2	0	0	2	1	0	0	0	0	1	1	44.0	26.9	D	C	Ontario, Caltrans / LOS D
	With Project	TS	<u>2</u>	2	0	0	2	1	0	0	0	0	1	1	44.3	28.1	D	C	
37	Grove Av. & SR-60 EB Ramps Without Project	TS	0	2	0	<u>2</u>	2	0	<u>1</u>	1	1	0	0	0	35.0	32.8	D	C	Ontario, Caltrans / LOS D
	With Project	TS	0	2	0	<u>2</u>	2	0	<u>1</u>	1	1	0	0	0	35.0	35.3	D	D	
39	Grove Av. & Riverside Dr. Without Project	TS	1	<u>2</u>	0	1	<u>2</u>	<u>0</u>	1	<u>2</u>	0	1	2	0	53.9	52.7	D	D	Ontario / LOS E
	With Project	TS	1	<u>2</u>	0	1	<u>2</u>	<u>0</u>	1	<u>2</u>	0	1	2	0	54.7	53.2	D	D	
40	Grove Av. & Chino Av. Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	17.8	19.2	B	B	Ontario / LOS E
	With Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	1	0	<u>1</u>	1	0	18.0	19.5	B	B	
41	Grove Av. & Schaefer Av. Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	56.2	19.9	E	B	Ontario / LOS E
	With Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	60.3	20.2	E	C	
42	Grove Av. & Edison Av. Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	49.6	70.4	D	E	Ontario / LOS E
	With Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	54.0	79.2	D	E	
43	Grove Av. & Eucalyptus Av. Without Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	20.7	20.7	C	C	Ontario / LOS E
	With Project	TS	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	0	28.6	49.8	C	D	
47	Grove Av. & Merrill Av. Without Project	TS	0	0	0	<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>2</u>	0	0	<u>2</u>	<u>1</u> >	19.1	16.0	B	B	Chino, Ontario / LOS D
	With Project	TS	0	0	0	<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>2</u>	0	0	<u>2</u>	<u>1</u> >	37.1	54.5	D	D	
48	Walker Av. & Edison Av. Without Project	TS	<u>1</u>	1	0	<u>1</u>	1	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	21.1	41.6	C	D	Ontario / LOS E
	With Project	TS	<u>1</u>	1	0	<u>1</u>	1	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	24.1	46.1	C	D	
49	Walker Av./Flight Av. & Merrill Av. Without Project	TS	<u>1</u>	1	0	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>2</u>	<u>0</u>	1	<u>2</u>	0	20.6	21.2	C	C	Chino, Ontario / LOS D
	With Project	TS	<u>1</u>	1	0	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>2</u>	<u>0</u>	1	<u>2</u>	0	25.0	27.4	C	C	
50	Van Vliet Av./Baker Av. & Merrill Av. Without Project	TS	0	1	0	0	<u>1</u>	0	<u>1</u>	2	0	1	<u>2</u>	0	12.5	8.4	B	A	Chino, Ontario / LOS D
	With Project	TS	0	1	0	0	<u>1</u>	0	<u>1</u>	2	0	1	<u>2</u>	0	13.1	8.7	B	A	
51	Vineyard Av. & Edison Av. Without Project	TS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	15.0	36.5	B	D	Ontario / LOS E
	With Project	TS	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>1</u>	0	<u>1</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	19.2	73.0	B	E	
52	Vineyard Av./Hellman Av. & Merrill Av. Without Project	TS	1	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	2	0	1	<u>2</u>	<u>1</u>	13.6	40.4	B	D	Chino, Ontario / LOS D
	With Project	TS	1	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	2	0	1	<u>2</u>	<u>1</u>	13.9	52.5	B	D	
53	Hellman Av. & Kimball Av. Without Project <sup>5</sup>	TS	<u>2</u>	2	0	<u>1</u>	2	d	1	<u>2</u>	1>	2	2	1	23.4	32.5	C	C	Chino, Eastvale / LOS D
	With Project <sup>5</sup>	TS	<u>2</u>	2	0	<u>1</u>	2	d	1	<u>2</u>	1>	2	2	1	23.9	37.4	C	D	

**Table 7-3**  
Page 3 of 3

**Intersection Analysis for Horizon Year (2040) Conditions With Improvements**

#	Intersection	Traffic Control <sup>3</sup>	Intersection Approach Lanes <sup>1</sup>												Delay <sup>2</sup> (secs.)		Level of Service		Jurisdiction(s) / LOS Standard		
			Northbound			Southbound			Eastbound			Westbound			AM	PM	AM	PM			
			L	T	R	L	T	R	L	T	R	L	T	R	L	T	R				
54	Carpenter Av. & Merrill Av.																				
	Without Project	TS	1	1	0	1	1	0	1	2	1	1	2	0	23.5	18.6	C	B	Chino, Ontario / LOS D		
With Project	TS	1	1	0	1	1	0	1	2	1	1	2	0	28.6	21.8	C	C				
55	Hellman Av. & Edison Av.																				
	Without Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	18.0	39.0	B	D	Ontario / LOS E		
With Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	19.9	50.5	B	D				
58	Archibald Av. & Riverside Dr.																				
	Without Project	TS	2	3	0	2	3	0	1	2	d	1	2	d	63.2	75.3	E	E	Ontario / LOS E		
With Project	TS	2	3	0	2	3	0	1	2	d	1	2	d	65.0	76.9	E	E				
60	Archibald Av. & Schaefer Av.																				
	Without Project	TS	1	3	0	1	3	0	1	1	0	1	1	1	10.9	39.0	B	D	Ontario / LOS E		
With Project	TS	1	3	0	1	3	0	1	1	0	1	1	1	11.2	42.2	B	D				
61	Archibald Av. & Ontario Ranch Rd.																				
	Without Project	TS	2	3	1>>	2	3	1>	2	4	1>>	2	4	1	73.0	67.6	E	E	Ontario / LOS E		
With Project	TS	2	3	1>>	2	3	1>	2	4	1>>	2	4	1	76.7	78.5	E	E				
62	Archibald Av. & Eucalyptus Av.																				
	Without Project	TS	1	3	0	1	3	0	1	2	0	1	2	1	26.7	32.0	C	C	Ontario / LOS E		
With Project	TS	1	3	0	1	3	0	1	2	0	1	2	1	29.6	33.0	C	C				
63	Archibald Av. & Merrill Av.																				
	Without Project	TS	2	3	1	2	3	1>	2	1	1>>	1	1	1	59.9	58.9	E	E	Ontario / LOS E		
With Project	TS	2	3	1	2	3	1>	2	1	1>>	1	1	1	79.1	77.6	E	E				
64	Archibald Av. & Limonite Av.																				
	Without Project	TS	1	3	1>	2	3	0	2	2	1	2	2	1>	36.6	48.1	D	D	Eastvale / LOS D		
With Project	TS	1	3	1>	2	3	0	2	2	1	2	2	1>	39.1	53.0	D	D				
65	Turner Av. & Ontario Ranch Rd.																				
	Without Project	TS	1	1	0	1	1	0	1	3	1	1	3	1	32.9	34.0	C	C	Ontario / LOS E		
With Project	TS	1	1	0	1	1	0	1	3	1	1	3	1	45.4	43.8	D	D				
67	Haven Av. & Ontario Ranch Rd.																				
	Without Project	TS	1	2	1	1	2	1	1	3	1	1	3	1	47.7	46.0	D	D	Ontario / LOS E		
With Project	TS	1	2	1	1	2	1	1	3	1	1	3	1	48.9	51.5	D	D				
70	Hamner Av. & Ontario Ranch Rd.																				
	Without Project <sup>7</sup>	TS	2	3	1>	2	3	0	2	4	1>	2	3	1	51.3	75.3	D	E	Eastvale, Ontario / LOS D		
With Project <sup>7</sup>	TS	2	3	1>	2	3	0	2	4	1>	2	3	1	54.6	78.0	D	E				

<sup>1</sup> When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.  
L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; >> = Free Right Turn Lane; d = Defacto Right Turn Lane; 1 = Improvement

<sup>2</sup> Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

<sup>3</sup> CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; TS = Improvement

<sup>4</sup> Improvement consists of modifying the traffic signal to extend the cycle length to 120 seconds. No other physical improvements are recommended.

<sup>5</sup> Assumes signalization of the intersection and the buildout of the east leg.

<sup>6</sup> Improvement includes modifying the coordinated cycle length from 90 seconds to 120 seconds.

<sup>7</sup> Improvement consists of modifying the traffic signal to extend the cycle length to 130 seconds.

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## 8 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Ontario are funded through a combination of construction of improvements, development impact fee programs or fair share contributions, such as the City of Ontario Development Impact Fee (DIF) program. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

### 8.1 CITY OF ONTARIO DEVELOPMENT IMPACT FEE PROGRAM

The City of Ontario has created its own local DIF program to impose and collect fees from new residential, commercial and industrial development for the purpose of funding roadways and intersections necessary to accommodate City growth as identified in the City's General Plan Circulation Element. The City's DIF includes regional improvements to comply with Measure "I." The fee schedule was last updated in January 2020 and is reviewed/adjusted annually based upon changes in the construction cost index (CCI). Under the City's DIF program, the City may grant to developers a credit against specific components of fees when those developers construct certain facilities and landscaped medians identified in the list of improvements funded by the DIF program.

The timing to use the DIF fees is established through periodic capital improvement programs which are overseen by the City's Public Works Department. Periodic traffic counts, review of traffic accidents, and a review of traffic trends throughout the City are also periodically performed by City staff and consultants. The City uses this data to determine the timing of implementing the improvements listed in its facilities list. The City also uses this data to ensure that the improvements listed on the facilities list are constructed before the LOS falls below the LOS performance standards adopted by the City. In this way, the improvements are constructed before the LOS falls below the City's LOS performance thresholds.

The Project Applicant will be subject to the City's DIF fee program and will pay the requisite City DIF fees at the rates then in effect pursuant to the City's ordinance. The Project Applicant's payment of the requisite DIF at the rates then in effect, pursuant to the City DIF Program, would satisfy the Project's proportional improvement requirements at potentially affected DIF-funded facilities.



**TABLE 10-1: ESTIMATED FEE OBLIGATION**

<b>Fee Reference</b>	<b>Light Industrial (\$ PER SQ. FT.)</b>
Industrial: Regional and Local Streets	\$3.002/SF
Business Park: Regional and Local Streets	\$5.824/SF

\* Ontario Ranch DIF rates effective as of January 1, 2020.

<b>Fee Calculation</b>				
<b>Program</b>	<b>Category</b>	<b>Unit Cost</b>	<b>Units/Sq.Ft.</b>	<b>Local Circulation</b>
Local/Regional Impacts	Industrial	\$3.00	4,337,356	\$13,012,935
	Business Park	\$5.82	1,075,235	\$6,262,169
<b>Total Transportation Impact Fees</b>				<b>\$19,275,104</b>

## 8.2 MEASURE “I” FUNDS

In 2004, the voters of San Bernardino County approved the 30-year extension of Measure “I,” a one-half of one percent sales tax on retail transactions, through the year 2040, for transportation projects including, but not limited to, infrastructure improvements, commuter rail, public transit, and other identified improvements. The Measure “I” extension requires that a regional traffic impact fee be created to ensure development is paying its fair share. A regional Nexus study was prepared by SBCTA and concluded that each jurisdiction should include a regional fee component in their local programs in order to meet the Measure “I” requirement. The regional component assigns specific facilities and cost sharing formulas to each jurisdiction and was most recently updated in November 2011. Revenues collected through these programs are used in tandem with Measure “I” funds to deliver projects identified in the Nexus Study. While Measure “I” is a self-executing sales tax administered by SBCTA, it bears discussion here because the funds raised through Measure “I” have funded in the past and will continue to fund new transportation facilities in San Bernardino County.

## 8.3 FAIR SHARE CONTRIBUTION

Project improvement may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City’s discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each peak hour, has been provided on Table 8-2 for the applicable deficient study area intersections.

These fees are collected with the proceeds solely used as part of a funding mechanism aimed at ensuring that regional highways and arterial expansions keep pace with the projected population increases.

**Table 8-2**  
Page 1 of 3

**Project Fair Share Calculations for Intersections**

#	Intersection	Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
1	SR-71 SB Ramps & Grand Av.	AM: 3,331	70	4,765	1,434	<b>4.9%</b>
		PM: 4,646	32	5,972	1,326	2.4%
2	SR-71 SB Ramps & Butterfield Ranch Rd.	AM: 1,961	9	2,577	616	<b>1.5%</b>
		PM: 2,069	10	2,894	825	1.2%
3	SR-71 NB Ramps & Edison Av.	AM: 3,579	85	5,638	2,059	4.1%
		PM: 5,195	101	7,135	1,940	<b>5.2%</b>
7	Central Av. & Edison Av.	AM: 3,950	94	5,973	2,023	4.6%
		PM: 4,139	110	6,338	2,199	<b>5.0%</b>
13	Euclid Av. (SR-83) & Riverside Dr.	AM: 3,264	117	5,614	2,350	5.0%
		PM: 3,525	131	6,114	2,589	<b>5.1%</b>
14	Euclid Av. (SR-83) & Chino Av.	AM: 2,462	127	4,640	2,178	5.8%
		PM: 2,873	141	5,153	2,280	<b>6.2%</b>
15	Euclid Av. (SR-83) & Schaefer Av.	AM: 2,480	136	5,034	2,554	<b>5.3%</b>
		PM: 3,136	151	6,092	2,956	5.1%
16	Euclid Av. (SR-83) & Edison Av.	AM: 2,786	238	6,955	4,169	5.7%
		PM: 3,641	271	8,006	4,365	<b>6.2%</b>
17	Euclid Av. (SR-83) & Eucalyptus Av.	AM: 2,522	67	4,975	2,453	<b>2.7%</b>
		PM: 2,906	71	6,007	3,101	2.3%
18	Euclid Av. (SR-83) & Merrill Av.	AM: 2,604	145	5,253	2,649	<b>5.5%</b>
		PM: 3,012	158	6,480	3,468	4.6%
19	Euclid Av. (SR-83) & Kimball Av.	AM: 3,275	105	5,936	2,661	3.9%
		PM: 3,825	118	6,812	2,987	<b>4.0%</b>
20	Euclid Av. (SR-83) & Bickmore Av.	AM: 1,831	96	3,875	2,044	<b>4.7%</b>
		PM: 1,843	108	4,356	2,513	4.3%
21	Euclid Av. (SR-83) & Pine Av.	AM: 3,350	96	5,483	2,133	<b>4.5%</b>
		PM: 3,583	108	6,698	3,115	3.5%
22	Campus Av. & Eucalyptus Av.	AM: 260	80	1,093	833	<b>9.6%</b>
		PM: 285	71	1,508	1,223	5.8%

**Table 8-2**  
Page 2 of 3

**Project Fair Share Calculations for Intersections**

#	Intersection	Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
23	Campus Av. & Merrill Av.	AM: 742	151	2,062	1,320	11.4%
		PM: 929	182	2,412	1,483	<b>12.3%</b>
24	Bon View Av. & Edison Av.	AM: 965	188	5,168	4,203	4.5%
		PM: 1,030	220	5,786	4,756	<b>4.6%</b>
25	Bon View Av. & Eucalyptus Av.	AM: 404	263	1,518	1,114	<b>23.6%</b>
		PM: 468	319	2,113	1,645	19.4%
28	Bon View Av. & Merrill Av.	AM: 815	199	2,232	1,417	14.0%
		PM: 994	262	2,589	1,595	<b>16.4%</b>
36	Grove Av. & SR-60 WB Ramps	AM: 2,875	59	4,449	1,574	3.7%
		PM: 2,922	70	4,517	1,595	<b>4.4%</b>
37	Grove Av. & SR-60 EB Ramps	AM: 2,370	94	3,833	1,463	6.4%
		PM: 2,603	110	4,195	1,592	<b>6.9%</b>
39	Grove Av. & Riverside Dr.	AM: 2,124	94	3,820	1,696	5.5%
		PM: 2,342	110	4,152	1,810	<b>6.1%</b>
40	Grove Av. & Chino Av.	AM: 823	94	2,315	1,492	6.3%
		PM: 1,004	110	2,584	1,580	<b>7.0%</b>
41	Grove Av. & Schaefer Av.	AM: 718	94	4,092	3,374	2.8%
		PM: 980	110	2,489	1,509	<b>7.3%</b>
42	Grove Av. & Edison Av.	AM: 1,169	273	4,874	3,705	7.4%
		PM: 1,488	320	5,471	3,983	<b>8.0%</b>
43	Grove Av. & Eucalyptus Av.	AM: 626	547	2,756	2,130	<b>25.7%</b>
		PM: 816	637	3,358	2,542	25.1%
47	Grove Av. & Merrill Av.	AM: 1,080	384	3,288	2,208	17.4%
		PM: 1,208	493	3,670	2,462	<b>20.0%</b>
48	Walker Av. & Edison Av.	AM: 866	103	3,753	2,887	<b>3.6%</b>
		PM: 1,140	120	4,879	3,739	3.2%
49	Walker Av./Flight Av. & Merrill Av.	AM: 1,070	265	3,026	1,956	13.5%
		PM: 1,140	298	3,079	1,939	<b>15.4%</b>

**Table 8-2**  
Page 3 of 3

**Project Fair Share Calculations for Intersections**

#	Intersection	Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
50	Van Vliet Av./Baker Av. & Merrill Av.	AM: 875	248	2,570	1,695	14.6%
		PM: 965	278	2,627	1,662	<b>16.7%</b>
51	Vineyard Av. & Edison Av.	AM: 0	231	4,776	4,776	<b>4.8%</b>
		PM: 0	270	5,789	5,789	4.7%
52	Vineyard Av./Hellman Av. & Merrill Av.	AM: 844	248	1,649	805	<b>30.8%</b>
		PM: 962	279	3,614	2,652	10.5%
53	Hellman Av. & Kimball Av.	AM: 1,128	77	3,168	2,040	<b>3.8%</b>
		PM: 1,178	90	3,852	2,674	3.4%
54	Carpenter Av. & Merrill Av.	AM: 1,123	171	3,170	2,047	8.4%
		PM: 1,111	189	3,032	1,921	<b>9.8%</b>
55	Hellman Av. & Edison Av.	AM: 0	222	4,925	4,925	<b>4.5%</b>
		PM: 0	260	5,945	5,945	4.4%
58	Archibald Av. & Riverside Dr.	AM: 3,540	87	5,714	2,174	4.0%
		PM: 4,021	97	6,117	2,096	<b>4.6%</b>
60	Archibald Av. & Schaefer Av.	AM: 1,512	96	3,399	1,887	<b>5.1%</b>
		PM: 1,592	108	3,941	2,349	4.6%
61	Archibald Av. & Ontario Ranch Rd.	AM: 2,966	278	8,026	5,060	<b>5.5%</b>
		PM: 3,034	315	8,802	5,768	5.5%
62	Archibald Av. & Eucalyptus Av.	AM: 2,117	72	4,641	2,524	<b>2.9%</b>
		PM: 1,999	75	4,923	2,924	2.6%
63	Archibald Av. & Merrill Av.	AM: 2,698	154	5,045	2,347	<b>6.6%</b>
		PM: 2,660	168	5,413	2,753	6.1%
64	Archibald Av. & Limonite Av.	AM: 2,721	142	5,855	3,134	<b>4.5%</b>
		PM: 2,803	164	7,333	4,530	3.6%
70	Hamner Av. & Ontario Ranch Rd.	AM: 3,332	156	6,521	3,189	4.9%
		PM: 4,169	178	7,718	3,549	<b>5.0%</b>

**BOLD** = Denotes highest fair share percentage.

<sup>1</sup> Fair share based on total traffic only.

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**APPENDIX I2**  
**VEHICLE MILES TRAVELED ANALYSIS**





August 13, 2021

Mr. Kevin Thomas  
Kimley Horn and Associates, Inc.  
3880 Lemon Street, Suite 420  
Riverside, CA 92501

**SUBJECT: SOUTH ONTARIO LOGISTICS CENTER VEHICLE MILES TRAVELED (VMT) ANALYSIS**

Dear Mr. Kevin Thomas:

The following VMT Analysis has been prepared for the proposed South Ontario Logistics Center Project (**Project**), which is located on the northeast corner of Bon View Avenue and Merrill Avenue, in the City of Ontario (San Bernardino County).

**PROJECT OVERVIEW**

The proposed Project is assumed to include the following mix of land uses, which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 4,337,356 square feet of industrial building spaces
- Business Park designation includes the commercial retail as one of its uses, potential future retail uses in the business park planning areas would tend to shorten trips versus industrial uses. However, future tenants are not yet known. In the interest of providing a more conservative analysis the following assumption will be made: 1,075,235 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130<sup>1</sup>).
- **Total of 5,412,591 square feet**

**BACKGROUND**

Changes to California Environmental Quality Act (CEQA) Guidelines were adopted in December 2018, which require all lead agencies to adopt VMT as a replacement for automobile delay-based level of service (LOS) as the measure for identifying transportation impacts for land use projects. This statewide mandate went into effect July 1, 2020. To aid in this transition, the Governor's Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA (December of 2018) (**Technical Advisory**). (1) Based on OPR's Technical Advisory, the San Bernardino County Transportation Authority (SBCTA) prepared the SBCTA Countywide SB 743 VMT Implementation Study

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<sup>1</sup> ITE Land Use Code 130 includes partial commercial retail in its rate.

(February 2020) to assist its member agencies with implementation tools necessary to adopt analysis methodology, impact thresholds and mitigation approaches for VMT. Included in this work effort, SBCTA in February 2020 also released to each of its member agencies Recommended Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment (SBCTA Guidelines) (2), which provides a template of specific procedures for complying with the new CEQA requirements for VMT analysis. Based on the SBCTA Guidelines, the City of Ontario adopted new transportation impact guidelines (June 2020) (**City Guidelines**) (3), which documents the City's VMT analysis methodology and impact thresholds. The VMT analysis presented in this report has been developed based on the recently adopted City Guidelines.

## **PROJECT SCREENING**

Consistent with City Guidelines, projects that meet certain screening thresholds based on their location and project type may be presumed to result in a less than significant transportation impact. Consistent with the screening criteria recommended in OPR's Technical Advisory, the City of Ontario utilizes the following project screening thresholds<sup>2</sup>:

- Low VMT Area Screening
- Low Trip Generating Uses Screening
- Transit Priority Area (TPA) Screening
- Project Type Screening

A land use project need only meet one of the above screening criteria to result in a less than significant impact.

### **LOW VMT AREA SCREENING**

City Guidelines state that "projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary."<sup>3</sup> The SBCTA screening tool was utilized to determine low areas of VMT. The screening tool uses the sub-regional San Bernardino Transportation Analysis Model (SBTAM) to measure VMT performance within individual traffic analysis zones (TAZ's) within the region. Parcels containing the proposed Project were selected and the screening tool was run for the Origin/Destination (OD) VMT per service population (SP) measure of VMT. Based on the Screening Tool results, the Project resides within TAZ 53653401 and that TAZ was shown to not be within a low VMT generating zone based on the OD method of calculating VMT.

The results of the screening tool for the OD VMT per SP calculations are provided in Attachment A.

**The Low VMT Area screening threshold is not met.**

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<sup>2</sup> City of Ontario Vehicle Miles Traveled Analysis Thresholds for CEQA (SB 743); Page 1

<sup>3</sup> City Guidelines; Page 19

### **LOW TRIP GENERATING USES SCREENING**

The City Guidelines indicate that small development projects generating fewer than 110 daily vehicle trips or less may be presumed to have a less than significant impact, subject to discretionary approval by the City. Trips generated by the Project's proposed land uses have been estimated based on trip generation rates collected by the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10<sup>th</sup> Edition, 2017. (4) Based on information contained in the Project's LOS based traffic study<sup>4</sup>, the Project is anticipated to generate more than 110 daily trips. (5)

**The Low Trip Generating Uses screening threshold is not met.**

### **TPA SCREENING**

Consistent with guidance identified in the City Guidelines, projects located within a Transit Priority Area (TPA) (i.e., within ½ mile of an existing "major transit stop"<sup>5</sup> or an existing stop along a "high-quality transit corridor"<sup>6</sup>) may be presumed to have a less than significant impact absent substantial evidence to the contrary. However, the presumption may not be appropriate if a project:

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

The Project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor.

**The TPA screening threshold is not met.**

### **PROJECT TYPE SCREENING**

The City Guidelines identify that local serving retail less than 50,000 square feet or other local serving essential services (e.g., day care centers, public schools, medical/dental office buildings, etc.) are presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, small projects anticipated to generate low traffic volumes and by association low greenhouse gas (GHG)

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<sup>4</sup> Urban Crossroads South Ontario Center Specific Plan Traffic Study, March 2021; Page 95

<sup>5</sup> Pub. Resources Code, § 21064.3 ("Major transit stop" means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.").

<sup>6</sup> Pub. Resources Code, § 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.").

emissions are also assumed to cause a less than significant impact. The Project consists of industrial and business park uses, which do not typically consist of local-serving or essential services.

**The Project Type screening threshold is not met.**

**PROJECT GENERATED VMT**

The City Guidelines state that projects not screened through the steps above should complete VMT analysis and forecasting through the SBTAM model to determine if they have a significant VMT impact. The first step in the analysis is to calculate project generated VMT and compare it to the City’s adopted impact threshold. SBTAM is a useful tool to calculate VMT as it considers interaction between different land uses based on socio-economic data such as population, employment and other factors. It was also the tool used to establish the City’s impact threshold, so is the appropriate tool to conduct the analysis to ensure an apples-to-apples comparison of project generated VMT to the adopted threshold.

Project generated VMT has been calculated using the most current version of SBTAM, which was updated recently by SBCTA as part of the development of their recommended VMT guidelines. Adjustments in socio-economic data (SED) (i.e., population, households, and employment) have been made to a separate traffic analysis zone (TAZ) to reflect the Project’s proposed land uses (i.e., employment). A separate TAZ is used to isolate project generated VMT from other land uses in the model. Table 1 summarizes the population and employment estimates for the Project.

**TABLE 1: SED ESTIMATES**

Land Use	% Mixture	Employees/TSF	Total TSF	Estimated Employment
Business Park	Non-Office (50%)	0.650	1,075.235	349
	Office (50%)	2.860		1,538
Industrial	Non-Office (90%)	0.650	4,337.356	2,537
	Office (10%)	2.860		1,240
<b>Total</b>			<b>5,412.591</b>	<b>5,664</b>

Because the tenant of the Project’s buildings are not yet known, the number of jobs that the Project would generate cannot be precisely determined; therefore, for purposes of this analysis, employment estimates were calculated using employment density factors of 0.65 employees/thousand square feet (TSF) for non-office portions and 2.86 employees/TSF for office portions of industrial and business park uses consistent with the Ontario General Plan Buildout Methodology document (April 2015)<sup>7</sup>. Based on these employment generation rates; the Project is expected to generate approximately 5,664 jobs. Project employment was added to the Project’s TAZ in both the base year model (2016) and the cumulative year model (2040). The base year model and cumulative year model were then run inclusive

<sup>7</sup> Source: <http://www.ontarioplan.org/wp-content/uploads/sites/4/2016/01/Methodology-Revised.pdf>

of the Project’s employment estimate.

The City has chosen the OD method of calculating VMT for purposes of establishing their impact threshold. The OD method of calculating VMT includes all vehicle trips and trip purposes (i.e., passenger cars and heavy trucks). Project generated VMT using the OD trip matrix from SBTAM was calculated for both the base year model (2016) and cumulative year model (2040), and linear interpolation was used to determine the Project’s baseline (2020) VMT. The VMT value was then normalized by dividing by the Project’s SP, which in this case is the number of Project employees. Table 2 presents the key inputs for the calculation of project generated VMT per SP.

**TABLE 2: PROJECT VMT PER SP**

	Base Year (2016)	Cumulative (2040)	Baseline (2020)
Project generated VMT	221,751	204,705	218,910
SP	5,664	5,664	5,664
Project VMT per SP	39.15	36.14	38.65

The City of Ontario has selected a threshold based on the General Plan Buildout VMT performance in the City. More specifically, the City Guidelines state that a significant impact would occur if the project VMT per SP exceeds the Citywide average for SP under General Plan Buildout Conditions.

Table 3 presents a comparison between baseline project generated VMT per SP to the City’s impact threshold. As shown, the baseline project generated VMT per SP is 38.65 or 6.77% above the City’s threshold.

**TABLE 3: PROJECT VMT IMPACT DETERMINATION**

	Baseline (2020)
Project VMT per SP	38.65
General Plan Buildout VMT per SP	36.20
Percent Change	+6.77%
Potentially Significant?	Yes

**PROJECT’S CUMULATIVE EFFECT ON VMT**

Consistent with City Guidelines, projects that are found to have a potential impact using efficiency-based metrics (such as VMT per SP) should also provide an additional assessment to evaluate a project’s effect on VMT. This analysis is performed using the boundary method, which includes all vehicle trips with one or both trip-ends within a specific geographic area of interest (i.e., City of Ontario). As shown on Table 4, the Project is anticipated to result in an increase in total VMT within the City of Ontario for General Plan Buildout conditions.

**TABLE 4: CUMULATIVE NET CHANGE IN CITYWIDE VMT**

	General Plan Buildout (2040) No Project	General Plan Buildout (2040) With Project
VMT	8,992,608	9,028,855

**POTENTIAL VMT REDUCTION STRATEGIES**

Consistent with SBCTA Guidelines, VMT reduction strategies should be considered to address project generated VMT that exceeds the City’s threshold. Transportation demand management (TDM) strategies have been evaluated for the purpose of reducing VMT impacts determined to be potentially significant. The effectiveness of TDM strategies to reduce VMT has been determined based on the SB 743 Implementation Mitigation and TDM Strategy Assessment (November 11, 2019, Fehr & Peers) prepared for SBCTA (**SBCTA TDM Report**), which was based on a current assessment of the previously published Quantifying Greenhouse Gas Mitigation Measures (CAPCOA, 2010) for applicability to projects in the SBCTA region. The SBCTA TDM Report indicates that of the 50 transportation measures presented by CAPCOA, only 41 of those measures are applicable at a building and site level. The remaining 9 measures are functions of, or depend on, site location and/or actions by local and regional agencies or funders.<sup>8</sup>

Based on a review of the 41 transportation measures identified by CAPCOA, the SBCTA TDM Report identifies that only 7 of those measures may be effective at the project level. Land use context is a major factor relevant to the potential application and effectiveness of TDM measures. More specifically, the land use context of the Project is characteristically suburban<sup>9</sup>. Based on a review of the potentially relevant TDM measures presented in the SBCTA TDM Report, the following TDM measures were evaluated for their applicability to the Project based on its suburban context and their ability to reduce project generated VMT:

- **Measure 1: Increase Diversity of Land Uses (LUT-3).** Having different types of land uses near one another can decrease VMT since trips between land use types are shorter and may be accommodated by non-auto modes of transportation. For example, when residential areas are in the same neighborhood as retail and office buildings, a resident does not need to travel outside of the neighborhood to meet his/her trip needs.

**Remarks:** The Project proposes the construction of 5,412,591 square feet of industrial and business park use. In order for the above measure to apply, at least 3 of the following land uses should be located on-site, or if not on-site then within ¼ mile or less of the Project: residential development, retail development, office development, park, or open space. Business Park land use designation allows for commercial retail use. However, at the time of this analysis future tenants are not known. Therefore, to perform a more conservative analysis industrial land use assumption was assumed in its entirety. As the proposed Project does not include a diverse mix of land uses on-site and is not located within a ¼ mile of 3 of the land uses listed above, this particular TDM measure is therefore not evaluated further as a means of providing a reduction in Project VMT.

<sup>8</sup> Measures obtained from SBCTA TDM report, p. 5.

<sup>9</sup> **Suburban:** Characterized by dispersed, low intensity, single use, automobile dependent land use patterns, usually outside of the central city (a suburb). (*Quantifying Greenhouse Gas Mitigation Measures*, p. 60).

It is, however, recognized that the Project would introduce additional employment opportunities, acting to generally improve the City and region jobs/housing balance. The resulting improved jobs/housing balance could reduce area commute VMT. This analysis, however, conservatively assumes no such VMT reduction.

- Measure 2: Provide Pedestrian Network Improvements (SDT-1). Providing on-site pedestrian access network to link areas of the Project to the off-site pedestrian network encourages people to walk for short trips instead of drive. This mode shift results in people driving less for nearby trips (typically less than ¼ mile and no greater than ½ mile) and thus a reduction in VMT.

Remarks: Although there are existing sidewalks off-site along portions of Merrill Avenue, field observations conducted at the time the Project's level of service analysis (i.e., traffic study) was prepared indicate there is nominal pedestrian activity in the study area likely due to the lack of diversity of land uses. Similarly, as noted in the previous measure, the future tenant is not yet known. To provide a more conservative analysis industrial use was assumed in its entirety. Furthermore, given the industrial nature of the Project and surrounding uses, it is unlikely that there would be substantive pedestrian activity even if a pedestrian network were to be expanded. This measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- Measure 3: Provide Traffic Calming Measure (SDT-2). Providing traffic calming measures encourages people to walk or bike instead of using a passenger car. This mode shift would result in a decrease in VMT. Traffic calming features may include marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers, and others.

Remarks: Business Park allows for commercial retail as a use which gives this measure the potential for reducing VMT. However, to provide a more conservative analysis industrial use is assumed. Given the industrial nature of the Project and similar characteristics of surrounding uses, there is limited opportunity for pedestrian and bicycle activity. This measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- Measure 4: Implement Car-Sharing Program (TRT-9). Implementing a car-sharing program would allow individuals to have on-demand access to a shared fleet of vehicles on an as-needed basis. User costs are typically determined through mileage or hourly rates, with deposits and/or annual membership fees.

Remarks: It is possible that employers within the Project site could implement car-sharing programs. This may provide car access for employees on an as-needed basis, and thereby alleviate some of the costs and responsibilities of individual car ownership. However, this would not necessarily result in a reduction of VMT, but would rather transfer the VMT source from individually-owned autos to employee-subsidized autos. The potential reduction in VMT is also extremely limited with a maximum reduction in VMT between 0.4 – 0.7 percent as noted by CAPCOA (Quantifying Greenhouse Gas Mitigation Measures, p. 245), therefore, this measure is not evaluated further as a means of providing a reduction in Project VMT.

- Measure 5: Increase Transit Service Frequency and Speed (TST-4). This measure serves to reduce transit-passenger travel time through more reduced headways and increased speed and reliability. This makes transit service more attractive and may result in a mode shift from auto to transit which reduces VMT.

Remarks: The study area is currently served by Omnitrans, a public transit agency serving various jurisdictions within San Bernardino County. No bus routes currently provide proximate service (within one-quarter mile) of the Project site. Transit service is reviewed and updated periodically to address ridership, budget and community demand needs. Changes in land use can affect these periodic adjustments which may lead to

either enhanced or reduced service where appropriate. It is recommended that the Applicant work in conjunction with the Lead Agency and Omnitrans to coordinate potential bus service to the Project site. Since implementation of this strategy would require agency implementation it is not applicable for individual development projects. This measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- Measure 6: Encourage Telecommuting and Alternative Work Schedule (TRT-6). Encouraging telecommuting and alternative work schedules reduces the number of commute trips and therefore VMT traveled by employees. Alternative work schedules could take the form of staggered starting times, flexible schedules, or compressed work weeks.

Remarks: The effectiveness of this measure is dependent on the ultimate building tenant(s) which are unknown at this time. This measure could provide for a potential reduction in Project VMT. CAPCOA notes that implementation of this measure could reduce commute VMT by 0.07 – 5.50 percent (Quantifying Greenhouse Gas Mitigation Measures, p. 236).

- Measure 7: Provide Ride-Sharing Programs (TRT-3). This strategy focuses on encouraging carpooling and vanpooling, but its ultimate implementation is limited similarly as Measure 6 above.

Remarks: The effectiveness of this measure is dependent on the ultimate building tenant(s) which are unknown at this time. This measure could provide for a potential reduction in Project VMT. CAPCOA notes that implementation of this measure could reduce commute VMT by 1.0 – 15.0 percent (Quantifying Greenhouse Gas Mitigation Measures, p. 227).

The effectiveness of the above-noted TDM measures would be dependent building occupancies, which are unknown at this time. Beyond Project tenancy considerations, land use context is a major factor relevant to the potential application and effectiveness of TDM measures. More specifically, the land use context of the Project is characteristically suburban. Of itself, the Project’s suburban context acts to reduce the range of feasible TDM measures and moderates their potential effectiveness. Relevant discussion in this regard is presented in *WRCOG SB 743 Implementation Pathway Document Package* (Fehr + Peers [for WRCOG]) March 2019, excerpted in pertinent part below:

The Technical Advisory relies on the *Quantifying Greenhouse Gas Mitigation Measures*, (CAPCOA) 2010 resource document to help justify the 15 percent reduction in VMT threshold stating, “. . . fifteen percent reduction in VMT are achievable at the project level in a variety of place types . . .”. A more accurate reading of the CAPCOA document is that a fifteen percent is the maximum reduction when combining multiple mitigation strategies for the *suburban center*<sup>10</sup> place type. For *suburban*<sup>11</sup> place types 10 percent is the maximum and requires a project to contain a diverse land use mix, workforce housing, and project-specific transit. It is also important to note that the maximum percent

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<sup>10</sup> **Suburban Center:** A project typically involving a cluster of multi-use development within dispersed, low-density, automobile dependent land use patterns (a suburb). The center may be an historic downtown of a smaller community that has become surrounded by its region’s suburban growth pattern in the latter half of the 20th Century. The suburban center serves the population of the suburb with office, retail and housing which is denser than the surrounding suburb (*Quantifying Greenhouse Gas Mitigation Measures*, p. 60).

<sup>11</sup> **Suburban:** A project characterized by dispersed, low-density, single-use, automobile dependent land use patterns, usually outside of the central city . . . (*Quantifying Greenhouse Gas Mitigation Measures*, p. 60).



reductions were not based on data or research comparing the actual performance of VMT reduction strategies in these place types. Instead, the percentages were derived from a limited comparison of aggregate citywide VMT performance for Sebastopol, San Rafael, and San Mateo where VMT performance ranged from 0 to 17 percent below the statewide VMT/capita average based on data collected prior to 2002. Little evidence exists about the long-term performance of similar TDM strategies in different land use contexts. As such, VMT reductions from TDM strategies cannot be guaranteed in most cases (*WRCOG SB 743 Implementation Pathway Document Package*, pp. 65 – 66).

It is also recognized that as the Project area and City develop as envisioned under the City of Ontario Policy Plan, new residential, commercial/retail, and industrial development would be implemented. These actions could collectively alter transportation patterns, improve the City’s jobs/housing ratio, diminish VMT/SP, and support implementation of new or alternative TDM measures. There is no means however to quantify any VMT reductions that could result. Additionally, the effectiveness of the TDM strategies that have potential to reduce the Project VMT/SP are dependent on as yet unknown final Project building tenant(s); and as noted above, “VMT reductions from TDM strategies cannot be guaranteed in most cases.” Further, the identified TDM measures are not likely to reduce Project truck VMT. Pointedly, CAPCOA provides no TDM measures targeted at truck traffic.

## CONCLUSION

In summary, the Project was found to exceed the City’s adopted VMT threshold by 6.77%. Reductions in commute VMT through feasible TDM measures such as those described previously will be provided by the Project. Inclusion of such VMT reduction measures in areas that are characteristically suburban<sup>12</sup> in context are noted to be limited to a maximum VMT reduction of 10%.<sup>13</sup> However, as future Project design features and building tenants are not yet known, reductions in VMT related to the above TDM measures cannot be accurately estimated or guaranteed. Therefore, the Project’s transportation impact based on VMT should conservatively be considered **significant and unavoidable**.

If you have any questions, please contact me directly at [aevatt@urbanxroads.com](mailto:aevatt@urbanxroads.com).

Respectfully submitted,

URBAN CROSSROADS, INC.

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<sup>12</sup> Suburban: A project characterized by dispersed, low-density, single-use, automobile dependent land use patterns, usually outside of the central city (a suburb).

<sup>13</sup> California Air Pollution Control Officers Association: “Quantifying Greenhouse Gas Mitigation Measures” August 2010; page 55.

Mr. Kevin Thomas  
Kimley Horn and Associates, Inc.  
August 13, 2021  
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Aric Evatt, PTP  
President

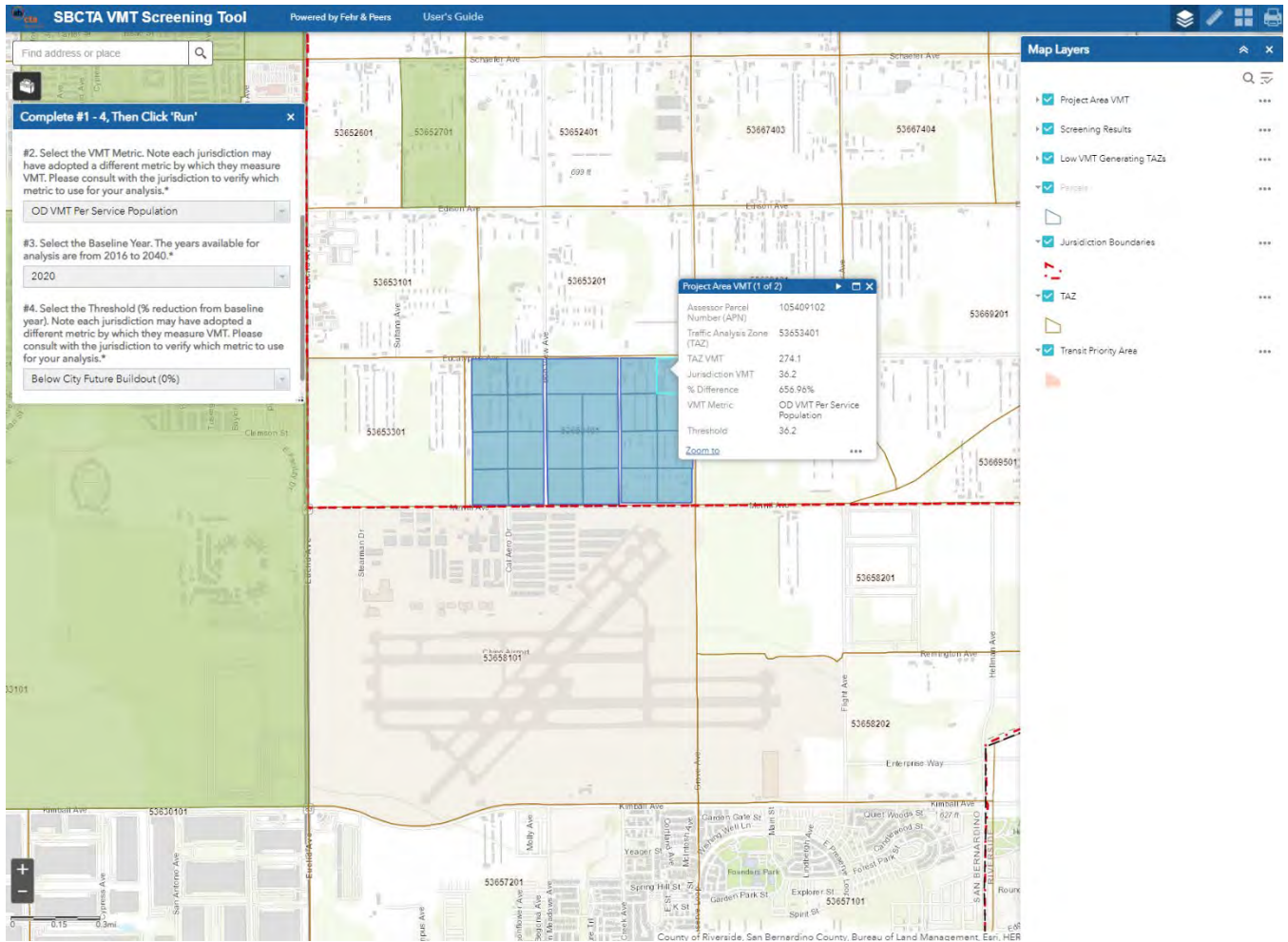


Robert Vu, PE  
Transportation Engineer

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2. **San Bernardino County Transportation Authority.** *Recommended Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment.* February 2020.
3. **City of Ontario.** *SB 743 VMT Thresholds.* City of Ontario : s.n., June 2020.
4. **Institute of Transportation Engineers.** *Trip Generation Manual.* 10th Edition. 2017.
5. **Urban Crossroads, Inc.** *South Ontario Logistics Center Traffic Impact Analysis.* January 2021.

**ATTACHMENT A**  
**SCREENING RESULTS**



**APPENDIX I3**  
**SB330 TRANSPORTATION EVALUATION**



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February 2, 2021

Mr. Kevin Thomas  
Kimley Horn and Associates, Inc.  
3880 Lemon Street, Suite 420  
Riverside, CA 92501

**SUBJECT: SOUTH ONTARIO LOGISTICS CENTER SPECIFIC PLAN SB330 TRANSPORTATION EVALUATION**

Dear Mr. Kevin Thomas:

The following transportation evaluation has been prepared for the proposed South Ontario Logistics Center Specific Plan (SOLC SP) development (**Project**), which is located on the northeast corner of Bon View Avenue and Merrill Avenue in the City of Ontario (San Bernardino County). The purpose of this evaluation is to qualitatively assess the potential impacts to transportation associated with the programmatic review of the reallocation of 1,352 low to moderate density housing units associated with the proposed Project.

## **PROJECT OVERVIEW**

The proposed Project includes 5,412,591 square feet of industrial, merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses. The Project requires a General Plan Amendment (GPA) that would change existing land use designations from 159.04 acres of "Low Medium Density Residential" and 63.14 acres of "Business Park" to 181.04 acres of "General Industrial" and 41.14 acres of "Business Park".

## **BACKGROUND**

The Project's Environmental Impact Report (EIR) must include the evaluation of "replacement housing" in accordance with Senate Bill (SB) 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB330 requires that where a development project results in the reduction in the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no "net loss" of the total allowable housing development within the City. The City in its evaluation of the proposed Project has determined that there would be a net loss of 1,352 low to moderate density housing units.

To address the reallocation of the 1,352 low to moderate density housing units, the City is considering the potential rezone of a portion of Grove Avenue bounded by Bon View Avenue to the west, Riverside Avenue to the north, Baker Avenue to the east and Schaefer Avenue to the south to higher residential densities (Grove Avenue Corridor), which would capture the displaced 1,352 units consistent with SB330 requirements. In support of this effort, the Project's EIR must evaluate the potential environmental

impacts associated with rezoning this area for higher density residential uses. Since there is no specific development proposal at this time, the environmental effects of the rezoning are evaluated at a programmatic level.

## **TRANSPORTATION EVALUATION**

Due to the adoption of SB743 in 2013, all cities within the State of California are required to adopt vehicle miles traveled (VMT) as the measure of a transportation impact under the California Environmental Quality Act (CEQA) as of July 1<sup>st</sup>, 2020. To aid in this transition, the Governor's Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA (December of 2018) (**Technical Advisory**). (1) The City of Ontario has also adopted VMT analysis guidelines and thresholds in June 2020 (**City Guidelines**). (2) This evaluation has been based on information contained in the Technical Advisory and the adopted City Guidelines.

### **VMT**

As noted previously, a specific development project is not currently proposed for the reallocation of 1,352 dwelling units displaced by the proposed Project. However, information cited in both the Technical Advisory and City Guidelines describe that a project's land use context, location and design characteristics all play a role in the resulting amount of VMT generated by an individual land use project. As the proposed Project would include the reallocation of 1,352 low to moderate density residential dwelling units to a mixed-use corridor with higher density residential that would offer improved access to transit, there are numerous aspects of the proposed change that would reduce VMT compared to the "No Project" condition.

The Technical Advisory and City Guidelines each provide evidence that land use projects located within a transit priority area (TPA) or close to a high-quality transit corridor would tend to generate low VMT when compared to typical suburban residential areas characterized by dispersed, low-density, single-use, automobile dependent land use patterns. In addition to proximity to transit, higher density projects located within walking distance of a diverse mix of land uses (e.g., shopping, office, government services, etc.) also generates lower VMT when compared to typical dispersed suburban development. The proximity of complementary land uses combined with safe and convenient bike and pedestrian networks are proven to reduce the need for automobile dependent travel and therefore a reduction in VMT. The Project's reallocation of 1,352 low to moderate density residential dwelling units to a higher density transit-oriented corridor that includes a diverse mix of uses would result in lower net VMT when compared to standard low to moderate density residential development.



Mr. Kevin Thomas  
Kimley Horn and Associates, Inc.  
February 2, 2021  
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### **OTHER TRANSPORTATION CONSIDERATIONS**

In addition, future land use development projects associated with the reallocation of the 1,352 units along the Grove Avenue Corridor will be required to follow standard development review process. In other words, future implementing projects associated with the reallocated 1,352 dwelling units along the Grove Avenue Corridor will need to evaluate site access driveways, parking, operational safety, and other factors as directed by the City Traffic Engineer.

### **CONCLUSION**

In summary, the proposed Project includes the reallocation of 1,352 low to moderate density residential units to the Grove Avenue Corridor. The reallocated units will be located in a planned higher density transit-oriented corridor that includes a diverse mix of uses, and due to these factors, is anticipated to generate lower VMT as compared to the lower density development plan assumed for the Project's current location. As such, the Project's potential transportation impact based on VMT is less than significant.

If you have any questions, please contact me directly at [cso@urbanxroads.com](mailto:cso@urbanxroads.com).

Respectfully submitted,

URBAN CROSSROADS, INC.



Charlene So, PE  
Associate Principal

Mr. Kevin Thomas  
Kimley Horn and Associates, Inc.  
February 2, 2021  
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1. **Office of Planning and Research.** *Technical Advisory on Evaluating Transportation Impacts in CEQA.* State of California : s.n., December 2018.
2. **City of Ontario.** *SB 743 VMT Thresholds.* City of Ontario : s.n., June 2020.

**APPENDIX J**  
**WATER SUPPLY ASSESSMENT**

**APPENDIX J1**  
**WATER SUPPLY ASSESSMENT**

**2<sup>nd</sup> DRAFT - Water Supply Assessment**  
**South Ontario Logistics Center**  
**Specific Plan**  
for City of Ontario

**Prepared for:**  
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August 2021

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## Introduction

This document prepared for the City of Ontario is a Water Supply Assessment (WSA) intended to meet the requirements of Senate Bill (SB) 610. The water demand for the South Ontario Logistics Center Specific Plan (“proposed project”) is calculated and the adequacy of water supplies to meet the proposed project is evaluated.

SB 610 established the primary legal standards for assessing the sufficiency of water supplies for new development projects. These statutes require as part of the environmental review conducted for a qualifying project pursuant to the California Environmental Quality Act (CEQA), the public water supplier or land use agency – in this case the City of Ontario – must prepare a “water supply assessment” of the reliability of water supplies for the project, considering normal, single dry, and multiple dry years over a 20-year horizon. The basic requirement is that a WSA must “include a discussion with regard to whether the public water system’s total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the water system’s existing and planned future uses, including agricultural and manufacturing uses.”<sup>1</sup>

References used in preparing this document include the following:

- City of Ontario 2015 Urban Water Management Plan (UWMP).
- City of Ontario 2012 Water Master Plan
- Chino Basin Desalter Authority 2015 UWMP
- Inland Empire Utilities Agency 2015 UWMP
- San Antonio Water Company 2015 UWMP

## Site Location and Project Description

The proposed Project is located on a 222.18-acre site in the southwest portion of the City of Ontario, within San Bernardino County. The proposed Project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east (refer to Exhibit 1, Vicinity Map).

The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste. There are potable water wells located throughout the proposed Project site and above ground fuel storage tanks along with various mechanical systems for dairy production practices. The remainder of the proposed Project site is used as irrigated cropland with berms located along the site perimeter. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport.

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<sup>1</sup> California Water Code Section 10910(c)(3).



The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. Phase II, which is comprised of Planning Areas 3, 4 and 5, has no specific development proposals that have been identified. The total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and off-site infrastructure improvements. The Specific Plan Land Use Plan Concept assigns land uses within the project site as summarized in **Table 1**.

**Table 1 – Proposed Project Land Use**

Planning Area <sup>1</sup>	Maximum Floor Area Ratio <sup>2</sup>	Site Acreage	Maximum Building Square Footage
Phase 1			
Planning Area 1: Business Park	0.6	23.0	601,128 SF
Planning Area 2: General Industrial	0.55	107.34	2,571,652 SF
Subtotal		130.34	3,172,780 SF
Phase 2			
Planning Area 3: Business Park	0.6	18.14	474,107 SF
Planning Area 4: General Industrial	0.55	56.3	1,348,835 SF
Planning Area 5: General Industrial	0.55	17.4	416,869 SF
Subtotal		91.84	2,239,811 SF
<b>TOTAL</b>		<b>222.18</b>	<b>5,412,591 SF</b>
a. Provided the GPA application submitted in conjunction with this Specific Plan to designate PAs 1 and 3 as Business Park and PAS 2,4, and 5 as General Industrial is approved b. The Project EIR as proposed is reviewing square footages and will be addressing the maximum allowable SF, per The Ontario Plan (TOP) thresholds. Land designations per the City of Ontario's latest general plan document entitled The Ontario Plan (2010).			

The proposed project is anticipated to be implemented in 2 Phases – “1,” and “2,” in addition to SB 330 sites. Phase 1 and 2 are both planned for 2023, with SB 330 sites also anticipated to start in 2023. Project phasing would ultimately respond to market demands and would be contingent on the availability of supporting infrastructure.

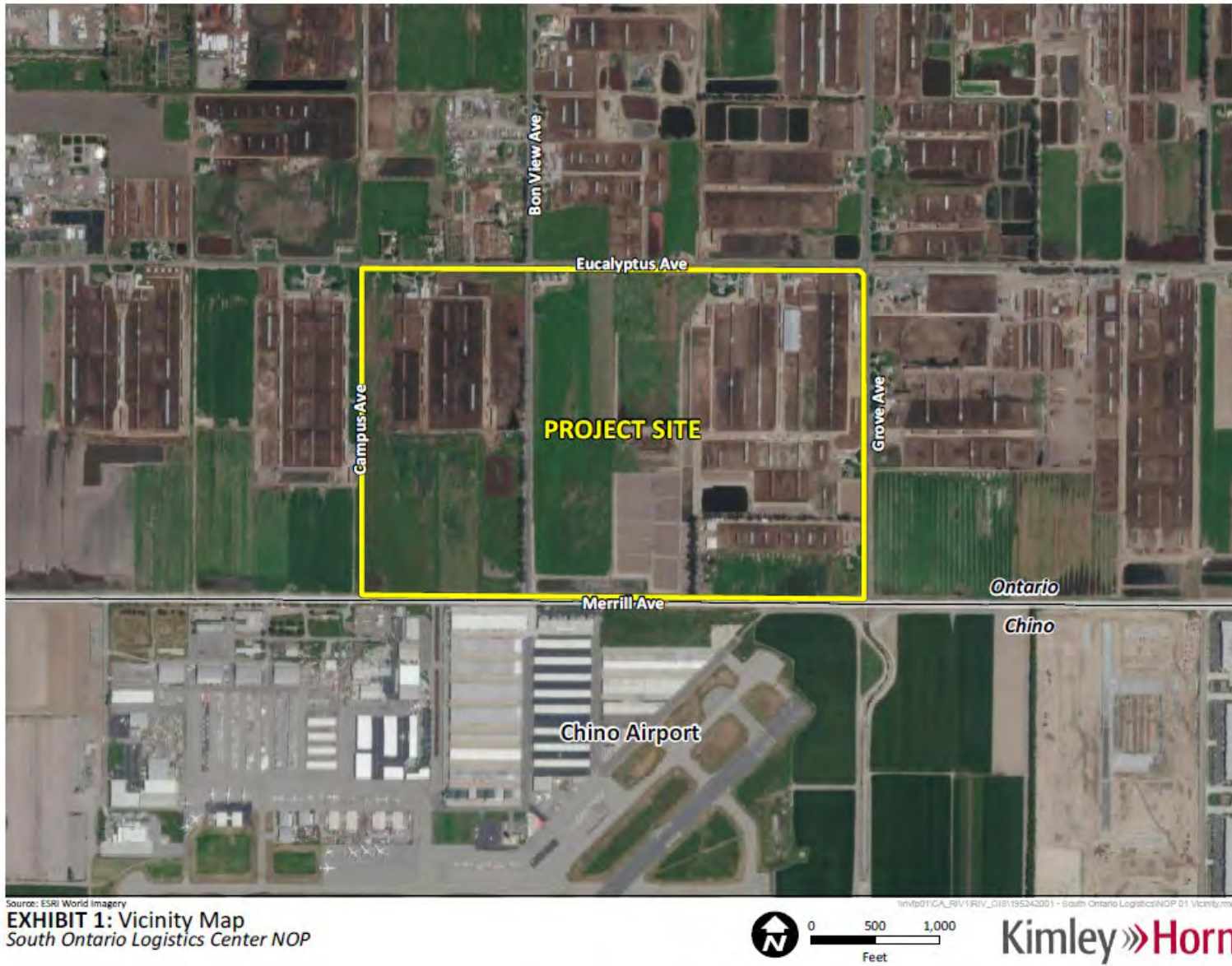
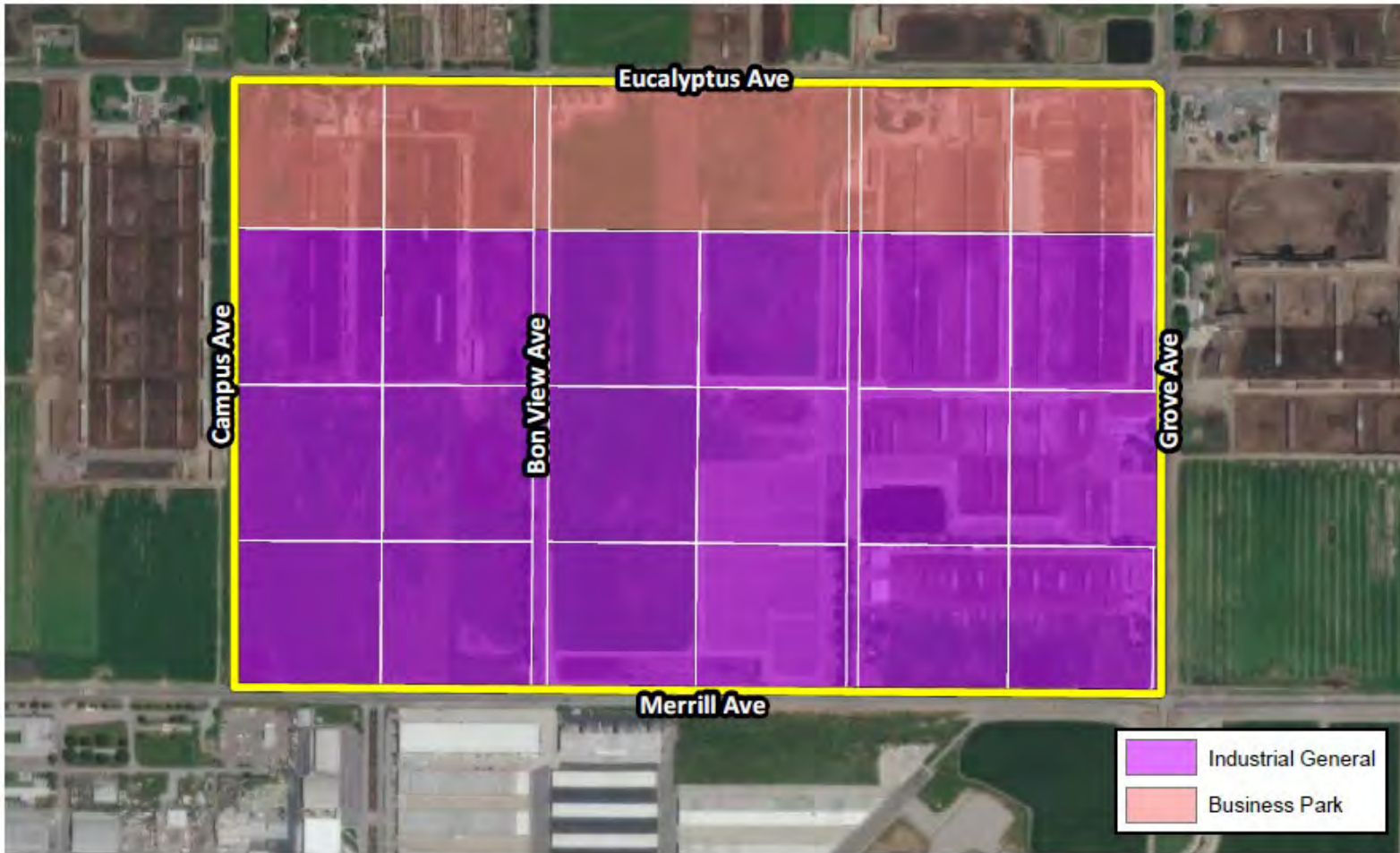


Figure 1 – Vicinity Map

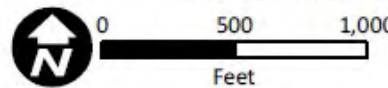


Proposed Land Use

Source: Ontario General Plan, ESRI World Imagery

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**EXHIBIT 2: Proposed General Plan Land Uses**  
*South Ontario Logistics Center NOP*



**Kimley»Horn**

Figure 2 – Proposed Land Use Map

The Ontario Municipal Utilities Company (OMUC) provides water service to residents, businesses, and other users in the City of Ontario, including the project site. Two small areas in the north central and northeastern sections of the City are served by the Cucamonga Valley Water District (CVWD). As of 2015, OMUC provided water to a population of approximately 168,777 people. The primary source of water is groundwater from Chino Groundwater Basin (Chino Basin). Other water supplies include treated groundwater from the Chino Basin Desalter Authority (CDA), recycled water from Inland Empire Utilities Agency (IEUA), imported water from the Water Facilities Authority (WFA), and purchased water from the San Antonio Water Company (SAWCo).

The City currently owns and operates:

- 17 active wells
- Two wells on standby
- Three of the active wells (Wells 41, 44, and 52) currently undergo treatment at two separate treatment plants

As of 2015, there were 33,720 water meters throughout the City.

Total potable and recycled water demand within the OMUC service area averaged 43,663 acre-feet per year (AFY) between 2005 and 2015. Potable water demands averaged 38,470 AFY and recycled water demands averaged 5,193 AFY (including agricultural demands), between 2005 and 2015. Despite growth within the City between 2005 and 2015, potable demands have steadily decreased in the last 10 years primarily due to increasing recycled water use and conservation efforts. In 2015, the City's total demand was 37,151 AFY. Potable water demands were 29,943 AFY and recycled water demands were 7,208 AFY (including agricultural demands). The total demands in the year 2040 are projected to be 73,640 AFY. Potable water demands are projected to be 57,093 AFY and recycled water demands are projected to be 16,547 AFY (including agricultural demands).

The passage of SB X7-7 (also known as the Water Conservation Act of 2009) resulted in increased efforts to reduce potable water usage by requiring all California urban water suppliers to achieve a 20% reduction in demands (from a historical baseline) by 2020. Using a 10-year base period of 1995 to 2004, the City's baseline water usage is 245 gallons per capita per day (GPCD). The City's interim 2015 water use target is 220 GPCD, and the 2020 target is 196 GPCD.<sup>2</sup>

It is required that every urban water supplier assess the reliability to provide water service to its customers under normal, single dry, and multiple dry years. As discussed in the City's Urban Water Management Plan (UWMP), the City is capable of meeting the water demands of its customers in normal, single dry, and multiple dry years between 2015 and 2040.

## Legal Requirements

SB 610 established the primary legal standards for assessing the sufficiency of water supplies for new development projects. Affected land developments are those that meet certain size thresholds. The proposed project meets the threshold for a proposed industrial, manufacturing, processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area. The proposed project also meets the threshold for a

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<sup>2</sup> City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space. Therefore, the proposed project, as described in Section 1.2, meets the criteria for preparation of a WSA.

The basic requirement is that a WSA must “include a discussion with regard to whether the public water system’s total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the water system’s existing and planned future uses, including agricultural and manufacturing uses.” If the water demand for a proposed project is accounted for in an adopted UWMP, as is the case here, the WSA preparer may incorporate that information into the WSA.

The WSA also requires additional analysis if any portion of the water purveyor's water supplies include groundwater. A description of any groundwater basin or basins from which the proposed project will be supplied in addition to a detailed description and analysis of the amount and location of groundwater pumped by the public water system for the past five years should be provided. The WSA should also include an analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project.

Upon adoption, the WSA is incorporated into the CEQA document being prepared for the project, and the lead agency must determine, based on the entire record, whether projected water supplies will be sufficient to satisfy demands for the project, in addition to existing and future uses.<sup>3</sup>

## Water Demand Analysis

This section evaluates whether the proposed project was included in the projection of future water demands for the City of Ontario, as described in the 2015 UWMP. As per Section 10910 (c) (2) of the California Water Code:

“if the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).”

### City of Ontario Water Demands

The primary source of water for the proposed project would be existing water supplies used by the City to provide service to its customers. This section analyzes the water demands of existing and planned future City customers.

Current and projected potable and recycled water demands by customer class are presented in Tables 2 and 3. The City’s total 2015 demand was 37,151 AFY. Potable water demand was 29,943 AFY and recycled water demand was 7,208 AFY (including agricultural demands). The projected 2040 potable water demand is 57,093 AFY and recycled water demand (including agricultural demands) is 16,547 AFY for a total of 73,640 AFY.

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<sup>3</sup> California Water Code Section 10910 (b) and (c).

**Table 2 – Current and Projected Potable Water Demands for the City of Ontario (AFY)**

Use Type	2015	2020	2025	2030	2035	2040
Single Family	10,941	11,488	12,063	13,271	14,864	16,557
Multi-Family	4,839	6,050	7,563	9,832	13,273	17,699
Commercial	6,584	7,271	7,635	8,398	9,406	10,277
Industrial	1,471	1,839	2,298	2,988	3,884	5,138
Landscape	4,564	4,792	5,032	5,535	6,365	7,422
Other	1,338	-	-	-	-	-
Sales/Transfers/Exchanges to other agencies	206	-	-	-	-	-
<b>Total</b>	<b>29,943</b>	<b>31,440</b>	<b>34,591</b>	<b>40,024</b>	<b>47,792</b>	<b>57,093</b>

AFY = Acre-feet/year  
Source: City of Ontario 2015 UWMP, 2016.

**Table 3 – Current and Projected Recycled Water Demands for the City of Ontario (AFY)**

Use Type	2015	2020	2025	2030	2035	2040
Recycled Water Demand	7,208	7,929	9,118	10,942	13,677	16,574

AFY = Acre-feet/year  
Source: City of Ontario 2015 UWMP, 2016.

## Proposed Project Water Demand

The proposed project consists of an approximately 222.18-acre development within the boundaries of the proposed South Ontario Logistics Center Specific Plan. The proposed project plans for new industrial and business uses. Buildout of the Specific Plan would generate 5,412,591 SF of building space. The proposed development would connect to the City’s water main for domestic water use. Recycled water would be used for landscape irrigation.

The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste. There are three potable water wells located throughout the proposed Project site and two above ground fuel storage tanks along with various mechanical systems for dairy production practices. The remainder of the proposed Project site is used as irrigated cropland with berms located along the site perimeter. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport.

Water use for the proposed project was calculated using domestic water demand rates and recycled water irrigation demand rates, as specified in the UWMP. **Table 4** shows the total water demand estimate for the proposed development.

**Table 4 – Water Demand Estimate for the Proposed Development**

Land Use	Acres	Domestic Water Demand Rate <sup>a</sup> (gpd/ac)	Total Domestic Water Usage (gal/day)	Recycled Water Demand Rate <sup>b</sup> (gpd/ac)	Total Recycled Water Usage (gal/day)
<b>Phase 1</b>					
PA 1: Business Park	23.00	1,800	41,400	1,340	30,820
PA 2: Industrial	107.34	1,400	150,276	890	95,533
<b>Phase 2</b>					
PA 3: Business Park	18.14	1,800	32,652	1,340	24,308
PA 4: Industrial	56.30	1,400	78,820	890	50,107
PA 5: Industrial	17.40	1,400	24,360	890	15,486
<b>Total</b>	<b>222.18</b>	<b>-</b>	<b>327,508</b>	<b>-</b>	<b>216,253</b>

Source: City of Ontario 2015 UWMP, 2016.

- a. Table 2 of the Ultimate Citywide Water Demand Estimate Technical Memorandum (Appendix B of the UWMP) was used to establish the domestic water demand rate.
- b. Table 2 of the Ultimate Citywide Water Demand Estimate Technical Memorandum (Appendix B of the UWMP) was used to establish the recycled water demand rate.

As shown in **Table 4**, the total domestic water demand within the South Ontario Logistics Center Specific Plan area is estimated to be 327,508 gal/day (366.9 AFY). The total recycled water demand is estimated to be 216,253 gal/day (242.2 AFY). The total water demand would be **543,761 gal/day** or **609.1 AFY**.

### Proposed Project with Respect to 2015 Urban Water Management Plan

In order to evaluate water supply reliability, California statutes require the consideration of water supplies and demands in three types of water conditions: normal, single dry, and multiple dry water years.<sup>4</sup> The 2015 UWMP indicates that the City is capable of meeting the water demands of its customers in normal, single dry, and multiple dry years between 2020 and 2040.

The 2015 UWMP projected water demands are based on future land uses as specified in the City’s latest 2010 General Plan. Based on the projected future land use for the project site in the UWMP, the water demand was estimated, as shown in **Table 5**.

**Table 5 – Water Demand Estimate for the Project Site Based on Projected Future Land Use in 2015 UWMP**

Land Use	Acres	Domestic Water Demand Rate <sup>a</sup> (gpd/ac)	Total Domestic Water Usage (gal/day)	Recycled Water Demand Rate <sup>b</sup> (gpd/ac)	Total Recycled Water Usage (gal/day)
Business Park	63.14	1,800	113,652	1,340	84,608
Low Medium Density Residential	158.89	3,960	629,204	625	99,306
<b>Total</b>	<b>222.03</b>	<b>-</b>	<b>742,856</b>	<b>-</b>	<b>183,914</b>

Comparing Project water demand in **Table 4** with water demand assumed in the 2015 UWMP as shown in **Table 5** shows that the total domestic water demand within the site area will decrease, compared to

<sup>4</sup> Department of Water Resources, 2005. *California Water Plan, Bulletin 160-05, Volume III* (“Each district has different assumptions and policies that guide their planning”).

planned land use as depicted in the 2015 UWMP. Water usage per the 2015 UWMP is estimated to be 742,856 gal/day (832.1 AFY). The total recycled water demand is estimated to be 183,914 gal/day (206.0 AFY). Therefore, the total water demand per the 2015 UWMP would be **926,770 gal/day** or **1,038 AFY**, compared to a total water demand of the Project (shown in **Table 4**) of **543,761 gal/day** or **609.1 AFY**.

Therefore, implementation of the proposed project will not obstruct the City’s ability to meet water demands of its customers in normal, single dry, and multiple dry years, because the Project will not use any additional water that was not accounted for.

In addition to evaluating changes in water demand for the SOLC Specific Plan Project site in comparison to the 2015 UWMP (**Tables 4 and 5** above), this WSA also evaluates a related aspect of the Project, the change in water demand associated with increasing residential density within the Grove Avenue Corridor SB 330 Replacement Sites study area. Per SB 330, in order for the City to approve the SOLC Specific Plan, the City must also “upzone” an area in the City to offset the loss in residentially zoned land. The City has evaluated the Specific Plan and has determined that it would result in the “loss” of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change).<sup>5</sup> The City would offset residential density “lost” from the Project site and rezone an area along the Grove Avenue Corridor, referred to as the “SB 330 Replacement Site” (refer to **Figure 3**, SB 330 Replacement Site). To accomplish the required additional residential density in the SB 330 Replacement Site, the City proposes to adopt an Overlay District to allow up to an additional 1,352 DU in this area. The additional density is assumed to be spread evenly across the 473-acre SB 330 Replacement Site. This area is currently zoned with a mix of low density, low-medium density and medium density residential allowing an estimated 3,690 DU, in addition to 18 acres of Neighborhood Commercial and 44 acres of General Commercial. For the purposes of SB 330 compliance, the proposed Overlay District would allow an additional 1,352 DU (as determined by the City’s density determinations to be 8.5 dwelling units per acre [du/ac.] for 159.04 acres of Low-Medium Density Residential), or an overall increase of approximately 37% in dwelling units for this 473-acre area. The City has determined that the Project would displace 1,352 DU of residential capacity as part of the SOLC Specific Plan approval. Therefore, the City has identified an additional density of 1,352 DU within the Grove Avenue Corridor, with an assumed average density of Medium Density Residential. As shown in **Table 6**, for the SB 330 site, the additional daily water usage will be a net increase of **398,840 gal/day**.

Table 6 – SB 330 Water Demands  Land Use	Units	Domestic Water Demand Rate (gpd/du)	Domestic Water Usage (gal/day)	Recycled Water Demand Rate (gpd/du)	Total Recycled Water Usage (gal/day)	Total Water Usage (gal/day)
Medium Density Residential	1,352	268	362,336	27	36,504	398,840

<sup>5</sup> City of Ontario. (2020). Email correspondence with Rudy Zeledon, Planning Director. December 10 2020.



**Table 7 – Water Demand Summary**

<b>Land Use</b>	<b>Total Domestic Water Usage (gal/day)</b>	<b>Total Recycled Water Usage (gal/day)</b>	<b>Total Water Usage (gal/day)</b>
<b>Projected in 2015 UWMP</b>			
Project Site	742,856	183,914	926,770
SB 330 Site	-	-	-
<b>Subtotal</b>	<b>742,856</b>	<b>183,914</b>	<b>926,770</b>
<b>Proposed Project</b>			
Project Site	327,508	216,253	543,761
SB 330 Site	362,336	36,504	398,840
<b>Subtotal</b>	<b>689,844</b>	<b>252,757</b>	<b>942,601</b>
<b>Net Difference</b>			
(gal/day)	<b>-53,012</b>	<b>68,843</b>	<b>15,831</b>
(%)	<b>-7.1%</b>	<b>37.4%</b>	<b>1.7%</b>

As shown in **Table 7** above, the implementation of the Project, and the rezoning of lower-density land for the SB 330 site for the Project, will result in a slight decrease in domestic water demand, an increase in recycled water demand, and an overall slight increase in total water demand (of 1.7%, or 15,831 gallons/day), compared to the 2015 UWMP. Therefore, implementation of the Project would result in a nominal increase in water demand and will not obstruct the City’s ability to meet water demands.

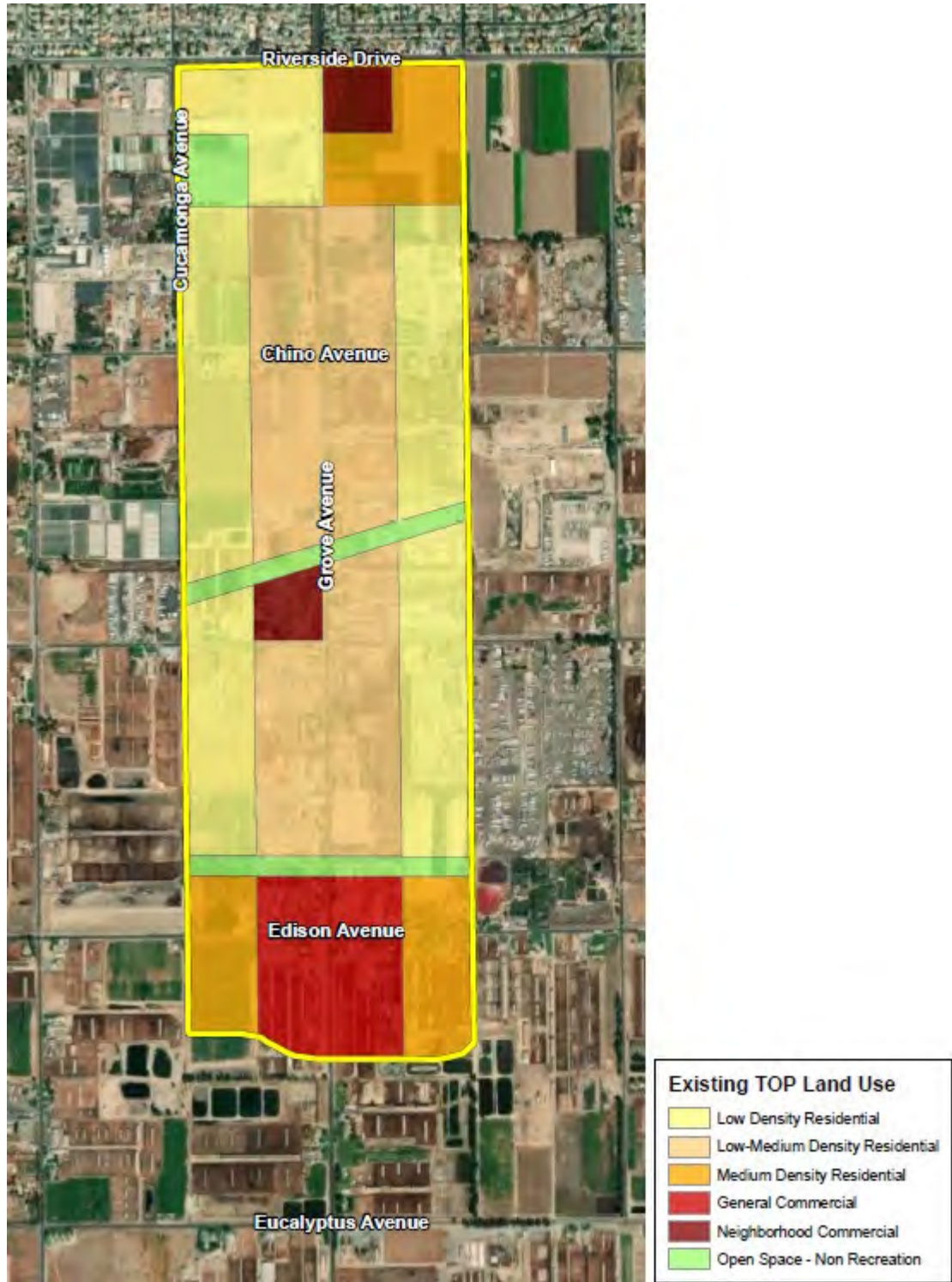


Figure 3 – SB 330 Replacement Site

## Water Supply Analysis

This section identifies the sources of water used by the City of Ontario and evaluates the water supplies that could be used by the City and the proposed project during normal, single-dry, and multiple-dry years through the year 2040.

Water sources used by the City include groundwater from Chino Groundwater Basin (Chino Basin), treated groundwater from the Chino Basin Desalter Authority (CDA), recycled water from Inland Empire Utilities Agency (IEUA), imported water from the Water Facilities Authority (WFA), and purchased water from the San Antonio Water Company (SAWCo).

The City of Ontario owns and operates 19 groundwater wells within the Chino Basin, of which 17 wells are currently active and two are on standby. Groundwater from the Chino Basin is used by the City of Ontario either directly by pumping into its distribution system or by treating the groundwater (Wells 41, 44 and 52) at one of its two plants and then pumping the treated groundwater into the City of Ontario's distribution system. The ultimate capacity of Ontario's existing and future wells is projected to be 105.8 million gallons per day (mgd) or 132,219 AFY.<sup>6</sup> Additional information on the City's groundwater resources and groundwater rights is provided in Section 2.5.

In addition to its well production, the City of Ontario also purchases treated Chino Basin groundwater from the CDA. The CDA was formed in 2002 as a Joint Powers Authority consisting of Inland Empire Utilities Agency; Jurupa Community Services District; Cities of Chino, Chino Hills, Norco, Ontario, and Santa Ana River Water Company. Western Municipal Water District joined in 2010.

As part of the Chino Basin Watermaster requirements in the Optimum Basin Management Program (OBMP), the member agencies of the CDA are required to extract 40,000 AFY of groundwater from the southern portion of the Basin, treat it to potable water standards, and deliver it to the member agencies. The CDA currently owns and operates two desalters (Chino I and Chino II Desalters) that consist of groundwater extraction wells connected to pumps and pipelines that direct water to advanced treatment facilities. The final product is a high-quality drinking water, which is sold to member agencies through "take or pay" contracts. The City has 1,500 AFY capacity rights in the Chino I Desalter and 3,500 AFY capacity rights in the existing Chino II Desalter. When the current expansion of the Chino II Desalter is completed, the City's total deliveries will increase to 8,533 AFY.<sup>7</sup>

Recycled water is provided to the City of Ontario by IEUA, which owns and operate four regional water recycling plants that produce disinfected and filtered tertiary treated recycled water in compliance with California Title 22 regulations. IEUA provides recycled water to Ontario and other local agencies through a distribution system consisting of pipelines, booster pump stations, pressure regulating station, and reservoirs.<sup>8</sup>

The City has been obtaining recycled water from IEUA since 1972. Currently, recycled water is used in the City for agricultural irrigation, landscape irrigation, golf course irrigation, and industrial uses. Based on the City's current Recycled Water Master Plan and the 2015 UWMP, the City has enough recycled water rights

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<sup>6</sup> City of Ontario, 2012. Water Master Plan. Prepared by AKM Consulting Engineers.

<sup>7</sup> City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

<sup>8</sup> Inland Empire Utilities Agency, 2016. 2015 Urban Water Management Plan. Prepared by Arcadis.

to meet future recycled water demands. In 2015, there were 12,131 AF of recycled water available to the City and 7,208 AF of recycled water were used.

The City also obtains treated imported water from the WFA, which is a wholesale water supplier to the cities of Chino, Chino Hills, Ontario, Upland, and the Monte Vista Water District.<sup>9</sup> The WFA purchases imported water from IEUA, which in turn purchases untreated water from the Metropolitan Water District (MWD). The MWD obtains its water from the State Water Project (SWP) and has projected 100% water supply reliability over the next 20 years, as per its 2015 UWMP.<sup>10</sup> The WFA obtains the raw water from a connection to MWD’s Rialto Feeder Pipeline, which starts at MWD’s Silverwood Lake Reservoir in the San Bernardino Mountains. The City owns 31.4 percent of the plant capacity (25.4 mgd, 28,500 AFY). The maximum capacity available to the City is 19,924 AFY, which equals the total capacity of 28,000 AFY less the Dry Year Yield (DYY) shift obligation of 8,076 AFY.<sup>11</sup>

SAWCo leases groundwater rights to the Cities of Fontana, Ontario, Chino and Upland, and the Cucamonga Valley Water District, the Monte Vista Water District, the Jurupa Community Services Water District and Three Valleys Municipal Water District.<sup>12</sup> The City of Ontario owns 295 shares of the SAWCo. In the past, the City received its water from SAWCo by a stored groundwater transfer. However, in 2015, SAWCo made a connection to the WFA and is now able to deliver water to the City through that connection. SAWCo water supplies are a mix of surface water from San Antonio Creek, groundwater from the San Antonio Tunnel, and three groundwater basins: Chino Basin, Cucamonga Basin, and Six Basins.<sup>13</sup>

Actual water supplies provided to the City for the year 2020 are summarized in **Table 8**.

**Table 8 – Water Supply Sources for the City of Ontario in 2020**

Water Supplier	Water Source	Amount (AFY)
City of Ontario	Groundwater	18,395
Chino Basin Desalter Authority (CDA)	Purchased/Imported Water	6,636
Water Facilities Authority (WFA)	Purchased/Imported Water	66,513
San Antonio Water Company (SAWCo)	Purchased/Imported Water	565
Inland Empire Utilities Authority (IEUA)	Recycled Water	4,907
IEUA – Agriculture Deliveries	Recycled Water	2,905
<b>Total</b>		<b>39,921</b>

Source: City of Ontario, FY 2019/2020

It is required that every urban water supplier assess the reliability to provide water service to its customers under normal, dry, and multiple dry water years. The City depends on a combination of imported and local supplies to meet its water demands and has taken numerous steps to ensure that it has adequate supplies. Water supplies available to the City are projected to meet full-service demands. The UWMP states that the City will be able to meet demand with projected supplies between 2020 and 2040 during normal years, single dry years, and multiple dry years (see **Table 9**).<sup>14</sup>

<sup>9</sup> Inland Empire Utilities Agency, 2016. 2015 Urban Water Management Plan. Prepared by Arcadis.

<sup>10</sup> Metropolitan Water District of Southern California, 2016. 2015 Urban Water Management Plan.

<sup>11</sup> City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

<sup>12</sup> San Antonio Water Company, 2016. 2015 Urban Water Management Plan. Prepared by Civiltec Engineering Inc.

<sup>13</sup> San Antonio Water Company, 2016. 2015 Urban Water Management Plan. Prepared by Civiltec Engineering Inc.

<sup>14</sup> City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

**Table 9 – Normal, Single Dry, and Multiple Dry Year Supply and Demand (AFY)**

	2020	2025	2030	2035	2040	
<b>Normal Year:</b>						
Supply Totals	39,369	43,710	50,966	61,470	73,640	
Demand Totals	39,369	43,710	50,966	61,470	73,640	
Difference	0	0	0	0	0	
<b>Single Dry Year:</b>						
Supply Totals	39,369	43,710	50,966	61,470	73,640	
Demand Totals	35,432	39,339	45,869	55,323	66,276	
Difference	3,937	4,371	5,097	6,147	7,364	
<b>Multiple Dry Year:</b>						
First Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	35,432	39,339	45,869	55,323	66,276
	Difference	3,937	4,371	5,097	6,147	7,364
Second Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	33,464	37,154	43,321	52,250	62,594
	Difference	5,905	6,557	7,645	9,221	11,046
Third Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	31,495	34,968	40,773	49,176	58,912
	Difference	7,874	8,742	10,193	12,294	14,728

Source: City of Ontario 2015 UWMP, 2016

The City will increase its total water supply from 37,151 AF of water delivered in 2015, to 73,640 AFY in 2040. The increased water supply will come from full utilization of the City’s groundwater rights in the Chino Basin allowed under the Judgment (including increased groundwater recharge of stormwater and recycled water), and continued expansion of recycled water use and expansion of desalter water. The increase in imported water is assumed to be available in wet and normal years. With the ability for the City to store water in the Chino Basin, in its local and supplemental storage accounts as well as the DYY Program storage account, the City has the capability and water supply available to reduce imported water deliveries in dry years and increase groundwater production to meet future demands.<sup>15</sup>

## Groundwater Analysis

Since most of the potable water supplied by the City of Ontario comes from groundwater, SB610 requires a groundwater analysis to be included as part of the WSA. The Water Code requires that the WSA include:

- Groundwater information from the 2015 UWMP
- Groundwater basin description: Including the legal rights to pump
- Historic Use of Groundwater: from the 2015 UWMP
- Projected Use of Groundwater
- Sufficiency of Groundwater from Chino Basin: The City of Ontario’s legal right to pump water in an amount necessary to meet all of its demands has been adjudicated and will ensure the long-term reliability of the groundwater source as the safe yield of the aquifer has been determined. The construction of Wells 45, 46, and 47, as part of the DYY Storage Program, increases the City’s

<sup>15</sup> City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

groundwater pumping capacity to meet peak demands. The City also has stored water in the Chino Basin and participates in an ongoing groundwater recharge program, using stormwater, dry-weather runoff, and recycled water, that ensures the safe yield of the Chino Basin is not exceeded. The ongoing expansion of the groundwater desalter program and recycled water program will reduce the City's dependence on groundwater pumping. In addition, the City participates in water conservation efforts through the California Urban Water Conservation Council (CUWCC), adopts ordinances pertaining to water shortage contingency planning, conservation pricing, and various public outreach programs to encourage its customers to reduce their water consumption.

## **Groundwater Information from the 2015 UWMP**

The 2015 UWMP adopted by the City in June 2016 contains a description of the Chino Groundwater Basin, the City's current and projected water supplies and demands, the reliability of the water supply, water shortage plans, the Optimum Basin Management Plan, and the adjudication judgment administered by the Chino Basin Watermaster. In addition, Appendix B of the UWMP prepared by AKM explains the methods and calculations by which the future water demand of the City was estimated, based on the land use designations in the General Plan.

## **Groundwater Basin Description**

The City of Ontario obtains its groundwater from the Chino Groundwater Basin. The Chino Basin encompasses about 235 square miles of the upper Santa Ana River watershed and lies within portions of San Bernardino, Riverside, and Los Angeles counties. The Chino Basin has approximately 6 million-acre feet of water in storage and an estimated 1 million acre-feet of storage capacity. The Chino Basin is divided into five management zones, based on similar hydrologic conditions, as shown in **Figure 4**, Chino Groundwater Basin Management Zones. The City of Ontario is located approximately in the center of the Chino Basin.

Groundwater quality in Chino Basin is generally good with better quality in the northern portion of the basin where recharge occurs. Salinity (TDS) and nitrate-nitrogen concentrations are higher in the southern portion of the basin. The Chino Basin has been extensively studied by the Chino Basin Watermaster. Reports are available at this website: <http://www.cbwm.org/>.

The Chino Basin Watermaster began development of the Optimum Basin Management Program (OBMP) in 1998 and completed it in 2000. The purpose of the program is to address both water quality and water supply considerations. The southern portion of the Chino Basin requires brackish groundwater treatment to control the outflow of salts and nitrates into the Santa Ana River. As such, one of the main benefits of the CDA is to remove salts and nitrates to clean up the Chino Basin. CDA operates 28 groundwater extraction wells that prevent brackish groundwater from flowing into the Santa Ana River.

The OBMP and its implementation agreement, the Peace Agreement, was approved by the Court in October 2000. One of the stipulations of the OBMP requires member agencies to extract approximately 40,000 AFY of groundwater from the southern portion of the Chino Basin, treat it to potable water standards, and then deliver it to the member agencies. When the Chino II Desalter expansion is complete, CDA is expected to meet this requirement. The City of Ontario purchased 3,543 AF from CDA in 2005, which is approximately 10 percent of the City's total supply. Upon completion of the Chino II Desalter expansion, the City's capacity rights will be 8,533 AFY.

### ***Legal Right to Pump from the Chino Basin***

Water rights to the Chino Basin were adjudicated in 1978 by the Superior Court of the State of California for San Bernardino County. Since that time, the Chino Basin has been sustainably managed, as required by the Judgment, under the direction of the court appointed Watermaster. The original Watermaster was the Chino Basin Municipal Water District (now IEUA). Since 1998, the Watermaster has been the Chino Basin Watermaster.

Multiple cities and water purveyors pump groundwater from the Chino Basin for all or part of their municipal and industrial water supplies. Agricultural users also pump groundwater from the Basin. The safe yield of the Chino Basin is 131,000 AFY as of 2021. The safe yield quantity of 131,000 AFY is allocated among three pools of right holders as follows:

- Overlying agricultural pool (dairymen, farmers, and the State of California): 82,800 AFY
- Overlying non-agricultural pool (businesses and industries): 7,366 AFY
- Appropriative pool (local cities, public water districts, and private water companies): 40,834 AFY

The Judgment states that all Chino Basin users can pump a sufficient quantity of water from the Basin to meet their requirements. If pumping by a party exceeds its share of the safe yield, assessments are levied by the Chino Basin Watermaster to replace overproduction. The Judgment also recognizes that there is a substantial amount of available unused groundwater storage capacity in the Chino Basin that can be used for storage and the conjunctive use of supplemental and basin waters. The Chino Basin Watermaster has the authority to reallocate shares of unallocated safe yield water on an annual basis, as per the latest 2019 Watermaster Resolution No. 2019-03.<sup>16</sup> (add source – Watermaster Resolution 2019-03). The Watermaster publishes an annual report that summarizes the status and management of the Chino Basin. A copy of the Chino Basin Judgment and latest Watermaster Annual Report can be found at [www.cbwm.org](http://www.cbwm.org).

The City of Ontario is a member of both the overlying non-agricultural pool and the appropriative pool and is therefore subject to the regulations imposed by the Chino Basin Watermaster. Per the Judgment, the City of Ontario has water rights of 20.742% of the safe yield of the appropriative pool (i.e., approximately 8,470 AFY). In addition, as of 2020 the City holds groundwater rights of 3,920.6 AFY from the overlying non-agricultural pool.

The City of Ontario also participates in the Dry Year Yield Storage Program (DYY Program), which is a cooperative conjunctive use program involving Metropolitan Water District of Southern California (MWD), IEUA, Chino Basin Watermaster, Three Valleys Municipal Water District (TVMWD), and some of the Chino Basin groundwater producers. Under the DYY Program, MWD is allowed to store up to 100,000 AF of water in the Chino Basin when surplus water is available and the Chino Basin groundwater producers can extract 33,000 AFY for three years in dry, drought, or emergency periods. The City authorized execution of an agreement with IEUA to participate in the DYY program in 2003. Participation obligates the City to reduce its use of imported water compared to a baseline by a fixed amount, known as the “shift obligation.” The City’s shift obligation is 8,076 AFY. During years when MWD calls for extraction, the City’s WFA purchases would be reduced by up to 8,076 AFY compared to the previous year. Because Jurupa Community Services District (JCSD) does not have an imported water connection, it has entered

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<sup>16</sup> Chino Basin Water Master, 2019. Watermaster Resolution No. 2019-03.

into an agreement with the City for meeting its shift obligation. Under this agreement, JCSD conveys groundwater to the City in an amount equal to its shift obligation. The current shift obligation is 2,000 AFY. This program allows the City to be less reliant upon imported water supplies and the additional groundwater capacity allows the City to increase the percentage of groundwater supply used to meet peak demands.

In addition to the appropriative pool and overlying non-agricultural pool water rights, as well as the contract obligations through the DYY Program, the following is a summary of other groundwater rights for Chino Basin:

### ***Land Use Conversions***

As of 2020, the City has rights to 4,254 AFY from the Chino Basin due to conversions from agricultural to non-agricultural land uses. This amount is expected to increase to 16,602 AFY as agricultural land uses are converted in the future. (However, annual adjustments may be made to the rights obtained through land use conversions.)

### ***Annual Early Transfers***

The Watermaster can approve an “Early Transfer” of unused agricultural pool water to the appropriative pool. The Early Transfer water is annually allocated among the appropriative pool members in accordance with their pro-rata share of the initial safe yield. For the 2020-2021 fiscal year, the Early Transfer of water for the City was 5,177 AF. The total Agricultural Pool Reallocation to the City of Ontario for Fiscal Year 2020-2021 was 10,468 AF.

### ***Increased Groundwater Recharge***

The City is entitled to water rights due to increased groundwater recharge with stormwater and recycled water credits in accordance with the OBMP. Stormwater recharge credit is assigned based on operating safe yield percentage. Recycled water recharge credit is assigned based on the wastewater contribution percentage. Based on an estimated total recharge of 35,000 AFY (20,000 AFY of recycled water and 15,000 AFY of stormwater) in 2035, the City of Ontario would be entitled to approximately 9,600 AFY in the future.

### ***Groundwater From San Antonio Water Company***

The City owns 295 shares of the San Antonio Water Company (SAWCo), which provides 600 AFY to the City. SAWCo supplies a mixture of water from San Antonio Creek, groundwater from the San Antonio Tunnel, and three groundwater basins: Chino Basin, Cucamonga Basin, and Six Basins. In the past, the City received its water from SAWCo by a stored groundwater transfer; however, in 2015, SAWCo made a connection to the WFA and is now able to deliver water to the City.

### ***Fontana Recycled Water Rights***

The City also has a long-term contract to purchase up to 3,000 AFY of recharged recycled water rights from the City of Fontana, which does not operate its own water system.



**City Groundwater Storage**

The City has rights to store water in the Chino Basin (appropriative and overlying non-agricultural) and has been increasing its storage in recent years. The City holds water in both an excess carry over accounts and supplemental accounts. Excess carry over storage accounts hold un-pumped operating safe yield groundwater rights. Supplemental accounts hold both imported water and recycled water that has been recharged into the Chino Basin. As of 2020, the City has a total of 96,544 AF in storage. This consists of 39,261 AF in excess carry over storage accounts and 57,283 AF in supplemental accounts. As of 2015, there is enough water in the City’s storage accounts to meet more than two years of total demands, should other water supply sources be unavailable. Based on the City’s projected increase in additional local supplies (desalter water and recycled water), the City’s groundwater storage accounts are projected to continue to grow at a rate of 2,000 AFY to 5,000 AFY, further increasing the City’s local resource reliability and reducing dependence on imported water.

The various groundwater rights held by the City of Ontario are summarized in **Table 10**.

**Table 10 – City of Ontario Groundwater Rights Summary**

	<b>Current (AFY)</b>	<b>Future Groundwater Produced (AFY)</b>
Dry Year Storage Program	8,076	8,076
Appropriative Pool	8,470	8,470
Overlying Non-Agricultural Pool	3,920	At least 3,920
Land Use Conversions	4,254	16,602
Annual Early Transfer	5,177	20.742 % of Ag Early Transfer
Groundwater Recharge Credits	Unknown	9,600 (in 2035)
Fontana Recycled Water Rights	Max. 3,000	At least 3,000
SAWC Groundwater	600	At least 600
Groundwater Storage Accounts	Excess Carry Over Account: 39,261 Supplemental Account: 57,283	33,500 to 40,500 38,700 to 60,700

Source: Chino Basin Watermaster Assessment Year 2020-2021 (Production Year 2019-2020)

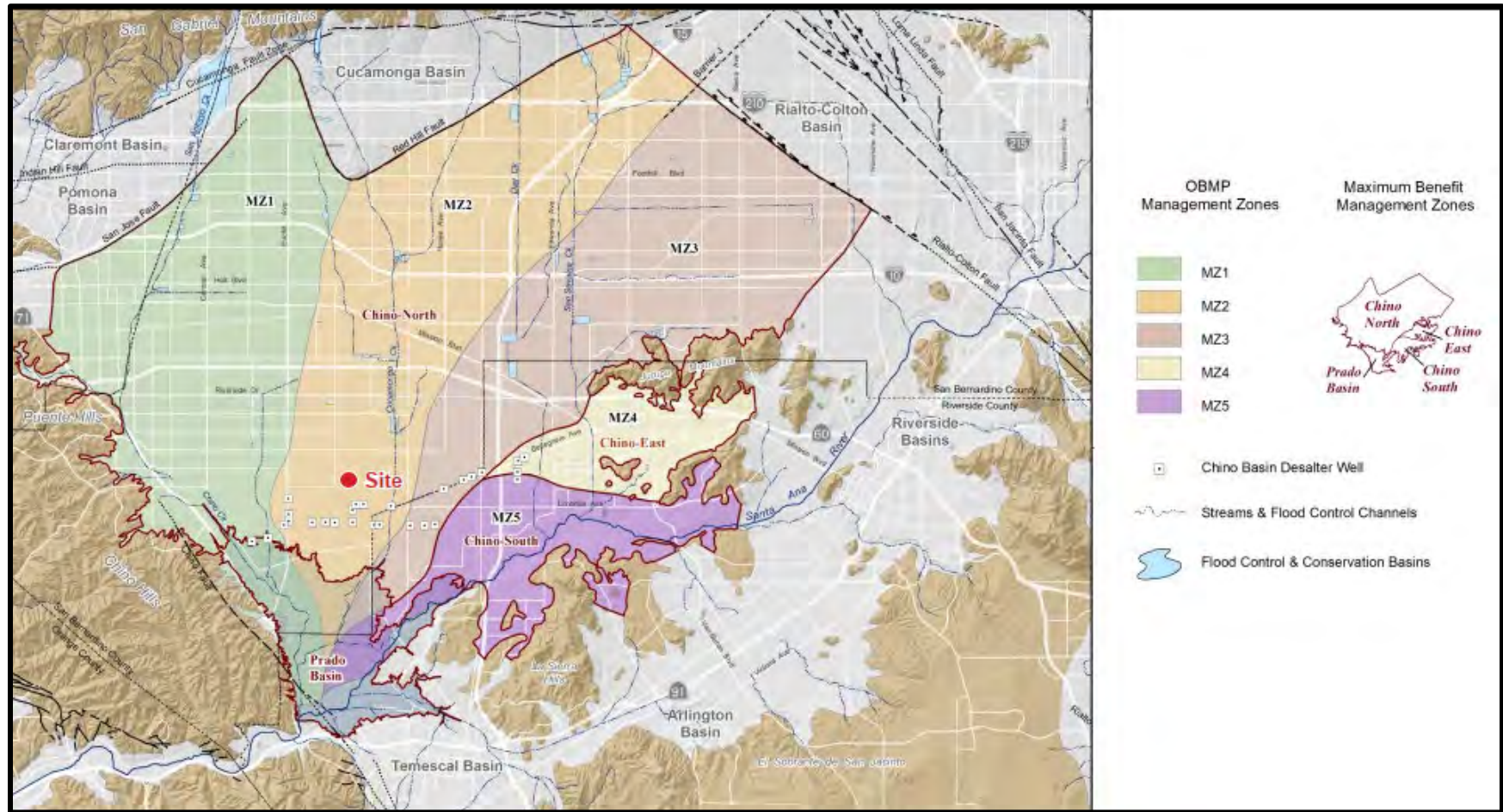


Figure 4 – Chino Groundwater Basin Management Zone

## Historic Use of Groundwater

The City owns and operates 19 groundwater wells, of which 17 are currently active and two are on standby. The City's 2012 Potable Water Master Plan includes nine new groundwater wells that will primarily supply the South Ontario Logistics Center area. The amount of groundwater pumped by the City of Ontario from the Chino Basin since 2000 is listed below in **Table 11**. A map of the location of the groundwater wells and pressure zones is shown on **Figure 5**, Ontario Ultimate Water System.

**Table 11 – Historic Groundwater Production**

Calendar Year	Groundwater produced (AFY)
2011	20,442
2012	20,226
2013	19,967
2014	20,274
2015	19,544
<b>Average</b>	<b>20,091</b>

Source: City of Ontario 2015 UWMP, 2016.

## Projected Use of Groundwater

The proposed project will receive water from the City of Ontario, using groundwater extracted from the Chino Basin, treated groundwater from the CDA, recycled water from the IEUA, and imported water from the WFA.

Groundwater from the Chino Basin will be directly pumped by the City of Ontario into its distribution system or by treating the groundwater extracted at Wells 41, 44 and 52 through ion-exchange facilities before pumping it into the distribution system. The City's current well capacity is 39,638 gallons per minute (gpm). When the nine future wells come on line, the capacity of the City's groundwater system will be greater than 72,315 gpm, this includes the nine future wells.

The City of Ontario also purchases treated groundwater from the CDA. The City currently has an entitlement of 5,000 AFY from the CDA. Once the CDA Desalter II expansion is complete, the City will have an additional entitlement of 3,533 AFY for a total of 8,533 AFY.

## Sufficiency of Groundwater from Chino Basin

According to the 2015 UWMP, the City's water supply (including conservation measures) will be sufficient to supply all of its needs to residential, commercial, and industrial customers through the year 2040 during normal, single dry, and multiple dry years. The City of Ontario's legal right to pump water in an amount necessary to meet all of its demands has been adjudicated and will ensure the long-term reliability of the groundwater source as the safe yield of the aquifer has been determined.

Approximately two-thirds of the City's water supply is groundwater pumped through its own wells located in the Chino Basin. The construction of Wells 45, 46, and 47, as part of the DYY Storage Program, increases the City's groundwater pumping capacity to meet peak demands. The City also has 96,544 AF of stored water in the Chino Basin as of 2020 and participates in an ongoing groundwater recharge program, using

stormwater, dry-weather runoff, and recycled water, that ensures the safe yield of the Chino Basin is not exceeded. The ongoing expansion of the groundwater desalter program and recycled water program will reduce the City’s dependence on groundwater pumping. In addition, the City participates in water conservation efforts through the California Urban Water Conservation Council (CUWCC), adopts ordinances pertaining to water shortage contingency planning, conservation pricing, and various public outreach programs to encourage its customers to reduce their water consumption.

The Cities of Chino, Chino Hills, Ontario, Upland, and the Monte Vista Water District submitted the Water Supply Reliability Certification and supporting documentation to the State Water Resources Control Board in June 2016. This was submitted under the requirements of the State Water Resources Control Board’s (SWRCB’s) May 18, 2016 Emergency Regulation. The results are summarized in **Tables 12 and 13**.

**Table 12 – Water Supplies Available to the City of Ontario for Water Years 2017-2019**

	WY 2017 (AF)	WY 2018 (AF)	WY 2019 (AF)
Water Facilities Authority	13,044	13,448	11,840
Chino Desalter Authority	8,533	8,533	8,533
San Antonio Water Company	545	545	545
Groundwater Rights (Appropriative Pool)	30,137	17,726	17,726
Groundwater Rights (Non-Agricultural Pool)	4,656	2,328	2,328
Recycled Groundwater Recharge	2,684	2,792	2,357
Source: Monte Vista Water District, 2016. Documentation to Support Water Supply Reliability Certification and Data Submission. AF = Acre Feet <sup>1</sup> Does not include agreement with the City of Fontana to purchase up to 3,00 AFY of Fontana’s recycled water groundwater recharge rights.			

**Table 13 – Chino Basin Carryover Water Supplies for City of Ontario WY 2019**

	WY 2019 (AF)
Annual Share of Safe Yield	12,664
Projected Annual Demands	35,809
Projected WY 2018 Supplies	58,036
WY 2018 Excess Supplies	22,227
WY 2019 Carryover Supplies	12,664
Source: Monte Vista Water District, 2016. Documentation to Support Water Supply Reliability Certification and Data Submission. AF = Acre Feet	

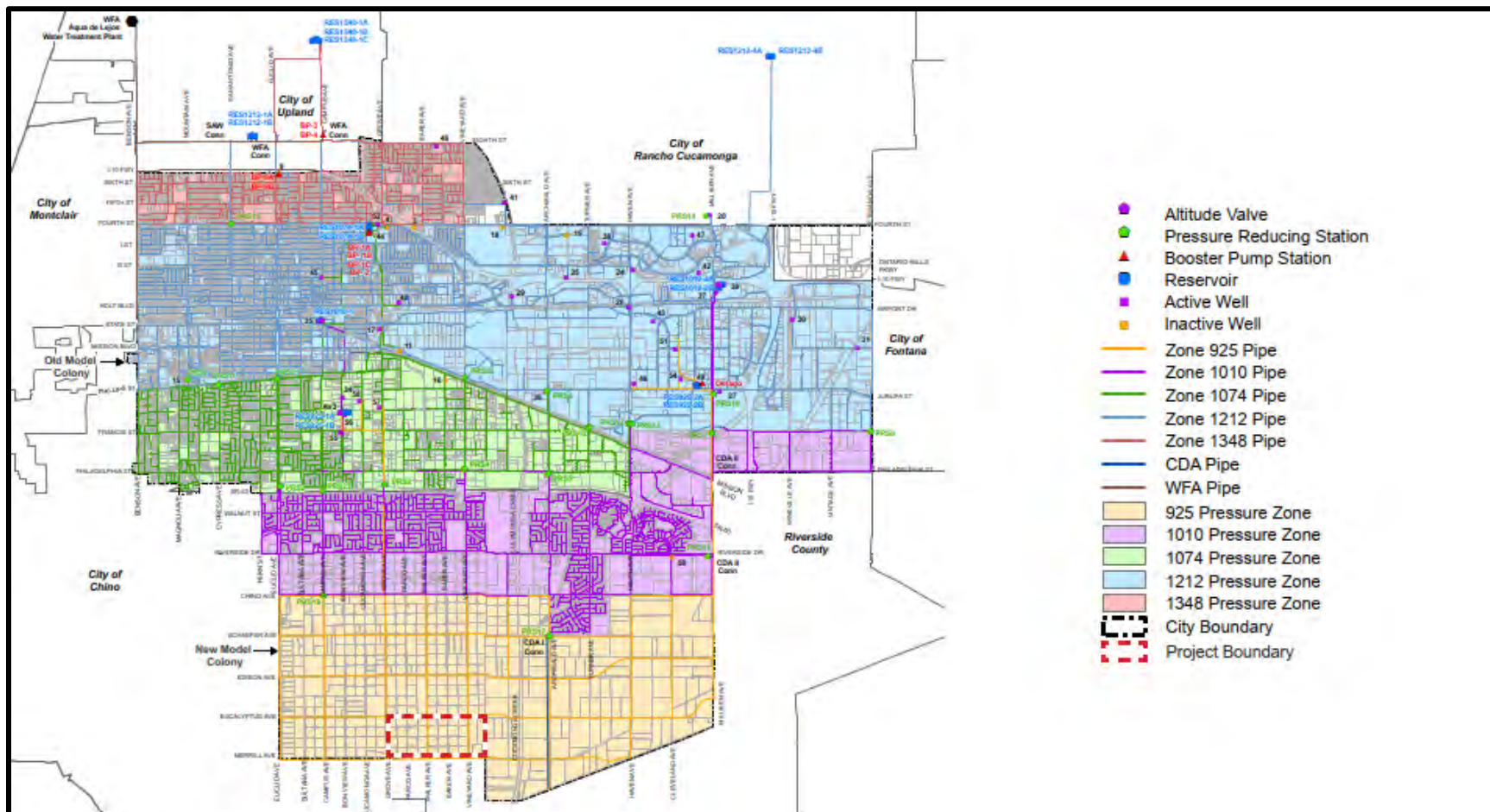


Figure 5 – Ontario Ultimate Water System

In addition, as of 2020 the Chino Basin has approximately 487,048 AF of groundwater that is currently stored and available for safe production through existing groundwater production wells. This quantity of additional available supply is not included in the City’s total supply projections. The amount of Chino Basin groundwater available for the City of Ontario is shown in **Table 14**.

**Table 14 – Chino Basin Stored Groundwater Available to the City of Ontario**

	<b>Local Excess Carry Over Storage (AF)</b>	<b>Local Supplemental Storage (AF)</b>	<b>Total</b>
Appropriative Pool	39,261	57,283	96,544
Non-Agricultural Pool	3,461	-	3,461
<b>Total</b>	<b>42,722</b>	<b>57,283</b>	<b>100,005</b>
Source: Chino Basin Watermaster 2020-21 Assessment Package AF = Acre Feet.			

In summary, there are sufficient groundwater supplies available to the City, based on the analysis provided above as well as the programs overseen by the Chino Basin Watermaster. The ongoing efforts by the City to implement water conservation programs and the use of recycled water will further reduce its reliance on groundwater resources.

## Water Shortage Contingency Planning

To prepare for water shortages, the City adopted Ordinance No. 3027 on September 1, 2015, in response to the Emergency Conservation Regulations mandated by the State Water Resources Control Board. Under this ordinance, the Water Conservation Plan was updated with more stringent prohibitions and penalties. The Water Conservation Plan establishes a voluntary conservation stage that is always in effect and mandatory water shortage stages 1 through 4, which enforce water conservation routines following a water crisis.

Depending on the City’s customer’s initiative to voluntarily conserve water at times of crisis, the City can determine when and how quickly to implement the mandatory conservation phases. The severity of the water shortage will influence which methods will be implemented. When conservation goals are not met simply through voluntary reduction in water use or when supplies are reduced by 10 percent, Stage 1 prohibitions are implemented. Stage 2 occurs when there is a 10 percent to 20 percent reduction in supplies. A reduction in supplies by more than 20 percent results in Stage 3 prohibitions. Severe water supply interruptions, resulting in a reduction in supplies by 50 percent, caused by earthquakes, widespread fires, or other natural disasters, prompt Stage 4 prohibitions. A Stage 4 water shortage will target the implementation of all consumption reduction methods.

## Water Efficiency Strategies

There are many water efficiency strategies that have been implemented in the City of Ontario that would also reduce water demands for the South Ontario Logistics Center. Since the City is located within an inland arid region where approximately 60 to 70 percent of water is used outdoors, there is a heightened focus on outdoor water use efficiency programs. The City offers outdoor rebates and incentives through various programs, such as: irrigation tune-up program, turf removal programs, landscape evaluations, landscape workshops and smart irrigation controller upgrades.

The City also offers an assortment of indoor rebate programs for residential, commercial, industrial, institutional and customers, such as: high efficiency/ultralow flush toilets, high efficiency clothes washer, waterless urinals, water brooms, pre-rinse nozzles, conductivity controllers, rotating nozzles and weather-based irrigation control.

Furthermore, the City along with other IEUA member agencies implements a Regional Water Use Efficiency Business Plan. The Business Plan references SB X7-7, and the State Water Resources Control Board's Emergency Conservation Regulations as the legislative drivers that help guide the development of water reduction goals. The Business Plan describes in detail how the region, and the City, will achieve the water reduction goals. Below is a summary of how the City will achieve the water reduction goals.

Water Use Efficiency Active Programs – offers customers incentives/rebates through a portfolio of indoor and outdoor programs in order to use water efficiently

Water Use Efficiency Passive Policy Initiative – water savings would result from the implementation of current and future building code standards, plumbing code standards and landscape ordinances

Recycled Water – the continued expansion of recycled water use will reduce demands for potable water supply

## Summary

A Water Supply Assessment (WSA) was prepared to assess the water demand and supply conditions with implementation of the proposed project. The Project proposes to revise current General Plan land use designations from Business Park and Low Medium Density Residential (as shown in Table 5) to Industrial and Business Park. In addition, the Project requires upzoning land within the Grove Corridor SB330 Replacement Site to offset the “loss” of 1,352 DU of residential zoning within the SOLC Specific Plan area. As shown in **Table 7**, the Project (including upzoning within the SB 330 Replacement Site area) would result in a slight decrease in domestic water demand, an increase in recycled water demand, and an overall slight increase in total water demand of 1.7% or 15,831 gallons/day. This nominal increase in water demand will not affect the City's ability to supply water to the Project or to the City.

According to the City's UWMP, the City has adequate supplies to serve 100 percent of its customers during normal, dry year, and multiple dry year demand through 2040 accounting for projected population increases and corresponding increases in water demand. This WSA concludes that the City will have sufficient water supplies available during normal, single dry, and multiple dry years through the year 2040 to meet all projected water demands associated with its existing and future customers, including the proposed project. In the unlikely event of a water shortage, implementation of the City's Water Conservation Plan and water efficiency strategies would ensure that sufficient water supplies were available to serve its customers, including the project and existing and future users.

**Table 15 – Projected Future Land Use in 2015 UWMP**

<b>APN</b>	<b>Acres</b>	<b>Land Use</b>
1054-071-01	9.5	Low Medium Density Residential
1054-071-02	9.62	Low Medium Density Residential
1054-081-03	18	Low Medium Density Residential
1054-091-01	9.14	Low Medium Density Residential
1054-091-02	8.73	Low Medium Density Residential
1054-101-01	9.62	Low Medium Density Residential
1054-101-02	9.21	Low Medium Density Residential
1054-231-01	9.61	Low Medium Density Residential
1054-231-02	9.5	Business Park
1054-241-01	9.5	Low Medium Density Residential
1054-241-02	9.62	Low Medium Density Residential
1054-321-01	8.89	Business Park
1054-321-02	8.51	Business Park
1054-311-01	9	Business Park
1054-311-02	9.14	Business Park
1054-051-01	9.14	Low Medium Density Residential
1054-051-02	9	Low Medium Density Residential
1054-061-01	9.6	Low Medium Density Residential
1054-061-02	9.5	Low Medium Density Residential
1054-251-01	9.6	Low Medium Density Residential
1054-251-02	9.5	Low Medium Density Residential
1054-301-01	9.1	Business Park
1054-301-02	9	Business Park